

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 192668

TO: Devesh Khare
Location: 5c35 / 5c18
Wednesday, June 28, 2006
Art Unit: 1623
Phone: 571-272-0653
Serial Number: 10 / 632875

From: Jan Delaval
Location: Biotech-Chem Library
Remsen 1a51
Phone: 571-272-2504
jan.delaval@uspto.gov

Search Notes

192668
Access DB#

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester= full Name: Devesh Khare Examiner #: 77931 Date: 06/12/2006

Art Unit: 1623 Phone Number 272-0653 Serial Number: 10/632,875

Mail Box: Remsen 5C18 and Bldg/Room Location: 5C35 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, key words, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: 2',3'-dideoxynucleoside analogs for the treatment or prevention of flaviviridae infections.

Inventors (please provide full names): Raymond F. Schinazi; Robert Striker; Junxing Shi

Earliest priority Filing Date: 08/01/2002

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please carry out a search on the attached claims sheet; examiner's hints provided.

Thank you.

STAFF USE ONLY

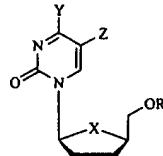
Searcher: Jan
Searcher Phone #: 22504
Searcher Location: _____
Date Searcher Picked Up: 6/27/06
Date Completed: 6/28/06
Searcher Prep & Review Time: _____
Clerical prep time: 25+60
Online Time: _____

PTO-1590 (1-2000)

Type of Search
NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable
STN
Dialog _____
Questel/Orbit _____
Dr. Link _____
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Sequence Systems _____
WWW/Internet _____
Other (specify) _____

31. A pharmaceutical composition for the treatment and/or prophylaxis of an HCV infection in a host, comprising an effective treatment amount of a 2',3'-dideoxynucleoside of the formula:



or a pharmaceutically acceptable salt or prodrug thereof, wherein

(i) X is O, S, S=O, SO₂, NR¹, N⁺R¹R², CH₂, CHF or CR³R⁴;

R¹ and R² are independently hydrogen, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, or C₃₋₈ cycloalkyl;

R³ and R⁴ are independently hydrogen, halogen (F, Cl, Br, or I), OH or OR⁵;

R⁵ is hydrogen or a hydroxyl protecting group such as alkyl, acyl or silyl;

(ii) Y is NH₂, NHR⁶, NR⁶R⁷, OH or OR⁸

each R⁶, R⁷ and R⁸ is independently H, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, C₃₋₈ cycloalkyl, cyclopropyl, or C₂₋₆ acyl;

(iii) Z is chosen from hydrogen, halogen (F, Cl, Br, or I), C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, CN, CF₃, N₃, NO₂, aryl, heteroaryl and COR⁹;

R⁹ is chosen from H, OH, SH, C₁₋₆ alkyl, C₁₋₆ aminoalkyl, C₁₋₆ alkoxy and C₁₋₆ thioalkyl; and

(iv) R is hydrogen, phosphate; acyl; -C(O)R¹⁰; alkyl; sulfonate ester; sulfonyl; a lipid; an amino acid; a carbohydrate; a peptide; a cholesterol; or other pharmaceutically acceptable leaving group, which, when administered *in vivo*, is capable of providing a compound wherein R is H or phosphate;

R¹⁰ is a C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl, aryl, monophosphate, diphosphate, triphosphate, or -P(O)(OR¹¹)₂;

each R¹¹ is independently hydrogen, C₁₋₆ alkyl, C₂₋₆ alkenyl, C₂₋₆ alkynyl or a hydroxyl-protecting group;

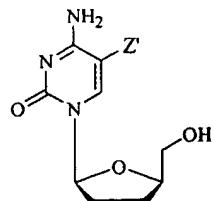
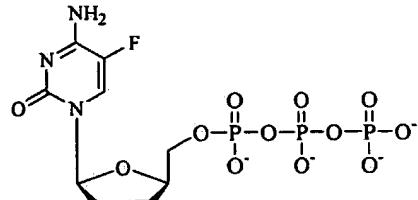
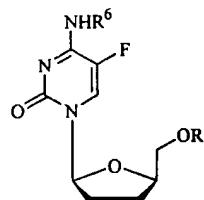
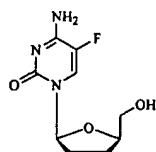
together with pharmaceutically acceptable carrier.

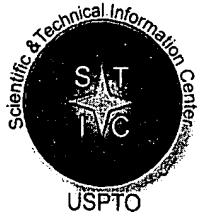
Examiner's hints and search points:

Please search the following specific compounds:

It has been found that β -L- or β -D-2',3'-dideoxynucleosides show inhibitory activity against *Flaviviridae* viruses, and in particular, HCV polymerase. Therefore, a

In one preferred embodiment, the active compound is β -L-2',3'-dideoxy-5-fluorocytidine (also referred to as β -L-ddFC), of the structure:





STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact **the searcher or contact:**

**Mary Hale, Information Branch Supervisor
22507, Remsen 1d86**

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* *Example: 1610*

➤ *Relevant prior art found, search results used as follows:*

- 102 rejection
- 103 rejection
- Cited as being of interest.
- Helped examiner better understand the invention.
- Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- Foreign Patent(s)
- Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- Results verified the lack of relevant prior art (helped determine patentability).
- Results were not useful in determining patentability or understanding the invention.

Comments:

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STRUCTURE FILE UPDATES: 26 JUN 2006 HIGHEST RN 889573-50-6
DICTIONARY FILE UPDATES: 26 JUN 2006 HIGHEST RN 889573-50-6

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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conducting SmartSELECT searches.

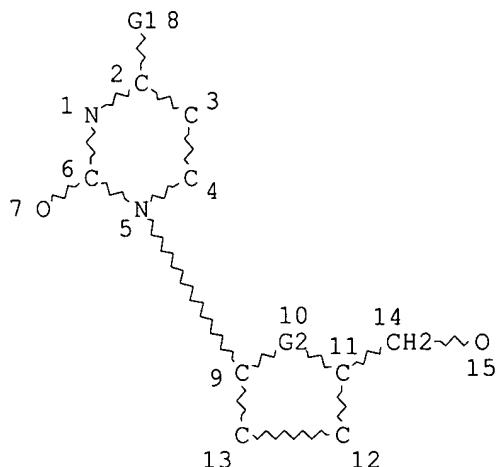
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

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=> d sta que 114
L12 STR



VAR G1=N/O

VAR G2=O/S/N/C
 NODE ATTRIBUTES:
 CONNECT IS E2 RC AT 12
 CONNECT IS E2 RC AT 13
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC 9 5
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L14 3169 SEA FILE=REGISTRY SSS FUL L12

100.0% PROCESSED 119539 ITERATIONS
 SEARCH TIME: 00.00.01 3169 ANSWERS

=> d his

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 SET COST OFF

FILE 'HCAPLUS' ENTERED AT 09:03:33 ON 27 JUN 2006
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 E SCHINAZI/AU
 L2 511 S E7,E8,E10-E12,E14,E16,E17
 E STRIKER/AU
 L3 14 S E24,E28,E29
 E SHI/AU
 L4 1 S E3
 E SHI J/AU
 L5 316 S E3,E21
 E SHI JUN/AU
 L6 534 S E3
 L7 41 S E74-E77
 E SHI NAME/AU
 L8 6 S E4
 E JUNXING/AU
 E PHARMASSET/PA,CS
 L9 72 S E3-E31
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 SEL RN L1

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 L12 STR
 L13 50 S L12
 L14 3169 S L12 FUL
 SAV TEMP L14 KHARE632B/A
 L15 16 S L11 AND L14
 L16 1 S L15 AND C9H12FN3O3
 L17 15 S L15 NOT L16

FILE 'HCAOLD' ENTERED AT 09:10:23 ON 27 JUN 2006
 L18 0 S L16
 L19 0 S L17

FILE 'HCAPLUS' ENTERED AT 09:10:27 ON 27 JUN 2006

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L21      70 S L17
L22      20 S L10 AND L20,L21
L23      73 S L21,L22 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)
L24      19 S L22 AND L23
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L25      11421 S E5+OLD,NT
L26      9774 S E3-E27
        E E27+ALL
L27      9774 S E7+NT
L28      207 S E6
        E E6+ALL
L29      13435 S E6+NT
        E HEPATITIS C/CT
        E E3+ALL
L30      6193 S E2,E3
L31      3 S L23 AND L25-L30
L32      1 S L24 AND L25-L30
L33      3 S L31,L32
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FILE LAST UPDATED: 26 Jun 2006 (20060626/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 133 all hitstr tot

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L33 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:120958 HCAPLUS
DN 140:157421
ED Entered STN: 13 Feb 2004
TI 2',3'-dideoxynucleoside analogs for the treatment or prevention of flaviviridae infections
IN Shi, Junxing; Schinazi, Raymond F.; Striker, Robert
PA Pharmasset Ltd., Barbados; Emory University; Board of Trustees
```

of the Leland Stanford Junior University
 SO PCT Int. Appl., 86 pp.
 CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N

CC 1-5 (Pharmacology)

Section cross-reference(s): 33

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004013298	A2	20040212	WO 2003-US24288	20030801 <--
	WO 2004013298	A3	20040401		
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	US 2004067877	A1	20040408	US 2003-632875 ..	20030801 <--
PRAI	US 2002-453715P	P	20020801 <--		
	US 2002-453716P	P	20020801 <--		
	WO 2003-US24288	W	20030801		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2004013298	ICM	C12N
		IPCI	C12N [ICM, 7]
		IPCR	A61K0031-513 [I,A]; A61K0031-513 [I,C*]; A61K0031-553 [I,A]; A61K0031-553 [I,C*]; A61K0031-58 [I,A]; A61K0031-58 [I,C*]; A61K0031-7042 [I,C*]; A61K0031-7056 [I,A]; A61K0031-7068 [I,A]; A61K0031-7072 [I,A]; A61K0038-20 [I,A]; A61K0038-20 [I,C*]; A61K0038-21 [I,A]; A61K0038-21 [I,C*]; C07H0019-00 [I,C*]; C07H0019-06 [I,A]
		ECLA	A61K031/513; A61K031/513+M; A61K031/553; A61K031/553+M; A61K031/58; A61K031/58+M; A61K031/7056+M; A61K031/7068; A61K031/7068+M; A61K031/7072; A61K031/7072+M; A61K038/20K+M; A61K038/21+M; C07H019/06
	AU 2003263978	IPCI	A61K0031-7068 [ICM, 7]; A61K0031-7042 [ICM, 7,C*]
		IPCR	A61K0031-513 [I,A]; A61K0031-513 [I,C*]; A61K0031-553 [I,A]; A61K0031-553 [I,C*]; A61K0031-58 [I,A]; A61K0031-58 [I,C*]; A61K0031-7042 [I,C*]; A61K0031-7056 [I,A]; A61K0031-7068 [I,A]; A61K0031-7072 [I,A]; A61K0038-20 [I,A]; A61K0038-20 [I,C*]; A61K0038-21 [I,A]; A61K0038-21 [I,C*]; C07H0019-00 [I,C*]; C07H0019-06 [I,A]
	US 2004067877	IPCI	A61K0038-16 [ICM, 7]; A61K0031-58 [ICS, 7]; A61K0031-7072 [ICS, 7]; A61K0031-7042 [ICS, 7,C*]; A61K0031-513 [ICS, 7]
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NCL 514/008.000
 ECLA A61K031/513; A61K031/513+M; A61K031/553; A61K031/553+M;
 A61K031/58; A61K031/58+M; A61K031/7068; A61K031/7068+M;
 A61K031/7072; A61K031/7072+M; A61K038/20K+M;
 A61K038/21+M; C07H019/06

OS MARPAT 140:157421

AB A method for the treatment or prevention of flaviviridae infections, in particular, hepatitis C virus infection, in a host, and in particular, a human, is provided that includes administering an effective amount of a 2',3'-dideoxynucleoside or a pharmaceutically acceptable salt or prodrug thereof, optionally in a pharmaceutically acceptable diluent or excipient. Preparation of compds. of the invention is included.

ST dideoxynucleoside deriv prepn antiviral flaviviridae; hepatitis C virus antiviral dideoxynucleoside deriv

IT Deoxyribonucleosides
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (2',3'-dideoxyribonucleosides; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT Gene, microbial
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (NS5B; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT Antiviral agents
 Drug delivery systems
Flaviviridae
 Hepatitis B virus
Hepatitis C virus
 Human
 Human immunodeficiency virus
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT Interferons
 Interleukin 10
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections, and use with other agents)

IT Infection
 (viral; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT Interferons
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (α ; oral; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections, and use with other agents)

IT Interferons
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (γ 1b; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections, and use with other agents)

IT Interferons
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (ω ; dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections, and use with other agents)

IT 7439-96-5, Manganese, biological studies 9026-28-2, RNA-dependent RNA polymerase
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (dideoxynucleoside analog preparation for treatment or prevention of

IT flaviviridae infections)
121154-51-6P 147058-39-7P
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT **107036-57-7 121154-51-6D, deribs. 147058-39-7D**
 , deribs. **160963-15-5 160963-16-6 161170-31-6**
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT 108-24-7, Acetic anhydride 2022-85-7, 5-Fluorocytosine 6893-26-1,
 D-Glutamic acid 34837-55-3, Benzeneselenenyl bromide 58479-61-1,
 tert-Butyldiphenylsilyl chloride
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT 52813-63-5P 53558-93-3P 128075-94-5P **128112-71-0P**
153547-97-8P 153547-98-9P 169527-97-3P
 189818-62-0P 189818-64-2P 189818-65-3P **189818-67-5P**
 221156-18-9P 656798-97-9P 656798-98-0P **656798-99-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

IT **656799-00-7P 656799-01-8P 656799-03-0P**
656799-05-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

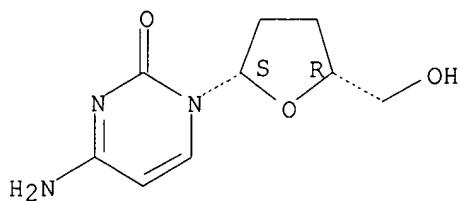
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 62304-98-7, Zadaxin 118390-30-0, Infergen 119567-79-2, Viramidine
 198153-51-4, Pegasys 198821-22-6, VX 497 206269-27-4, Levovirin
 220581-49-7, Rebif 223603-41-6, ISIS 14803 254750-02-2, IDN-6556
 402957-28-2, LY 570310 472960-22-8, Albuferon 632385-00-3, Heptazyme
 656836-15-6, IP 501 656836-16-7, XTL 002 656836-17-8, HCV/MF 59
 656836-18-9, Civacir 656836-19-0, JTK 003
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections, and use with other agents)

IT **121154-51-6P 147058-39-7P**
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

RN 121154-51-6 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

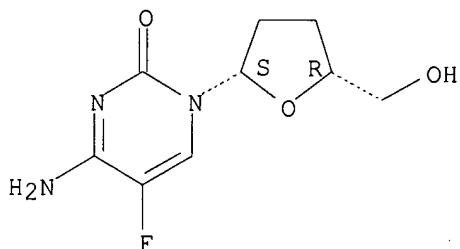
Absolute stereochemistry. Rotation (-).



RN 147058-39-7 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 107036-57-7 121154-51-6D, derivs. 147058-39-7D

, derivs. 160963-15-5 160963-16-6 161170-31-6

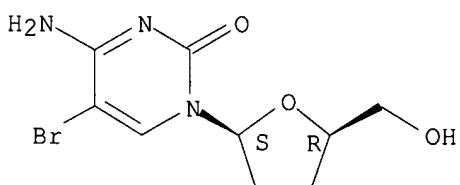
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)

(dideoxynucleoside analog preparation for treatment or prevention of
flaviviridae infections)

RN 107036-57-7 HCPLUS

CN Cytidine, 5-bromo-2',3'-dideoxy- (9CI) (CA INDEX NAME)

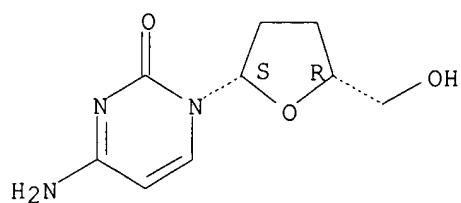
Absolute stereochemistry.



RN 121154-51-6 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

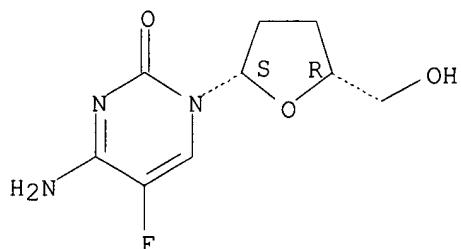
Absolute stereochemistry. Rotation (-).



RN 147058-39-7 HCPLUS

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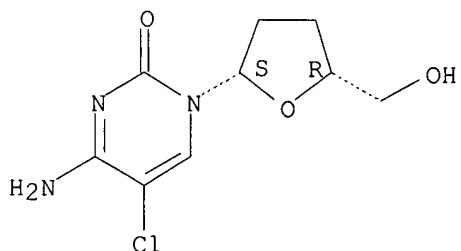
Absolute stereochemistry. Rotation (-).



RN 160963-15-5 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

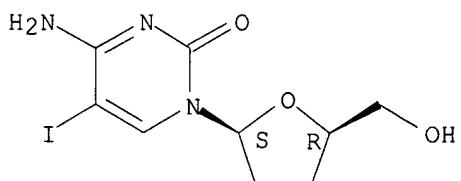
Absolute stereochemistry. Rotation (-).



RN 160963-16-6 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-iodo-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

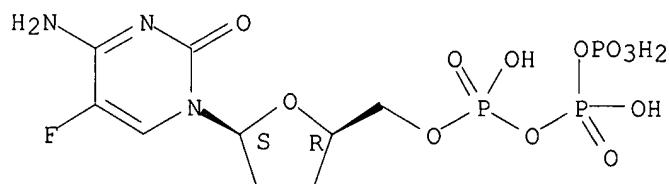
Absolute stereochemistry.



RN 161170-31-6 HCPLUS

CN Triphosphoric acid, P-[(2R,5S)-[5-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



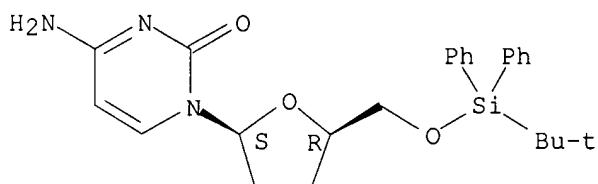
IT 128112-71-0P 153547-97-8P 153547-98-9P
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(dideoxynucleoside analog preparation for treatment or prevention of flaviviridae infections)

RN 128112-71-0 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-5-[[[1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]- (9CI) (CA INDEX NAME)

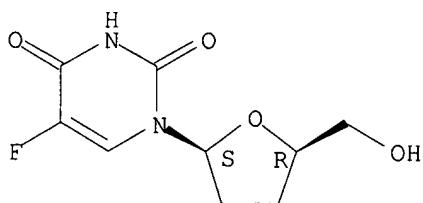
Absolute stereochemistry.



RN 153547-97-8 HCAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

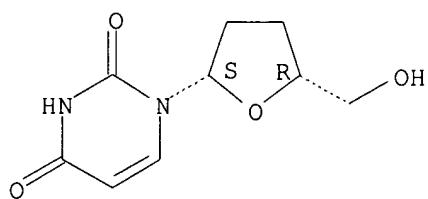
Absolute stereochemistry.



RN 153547-98-9 HCAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

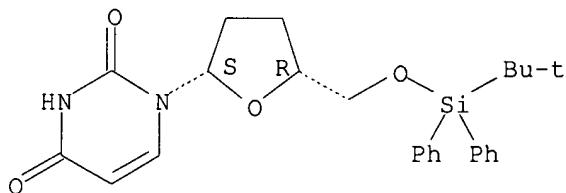
Absolute stereochemistry. Rotation (-).



RN 169527-97-3 HCPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]- (9CI) (CA INDEX NAME)

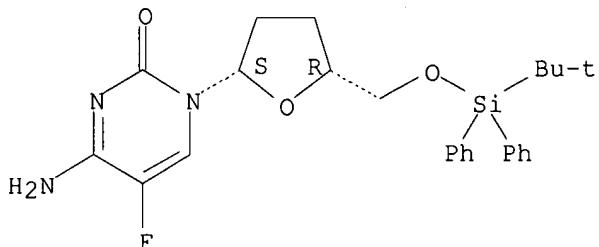
Absolute stereochemistry.



RN 189818-67-5 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-5-fluoro- (9CI) (CA INDEX NAME)

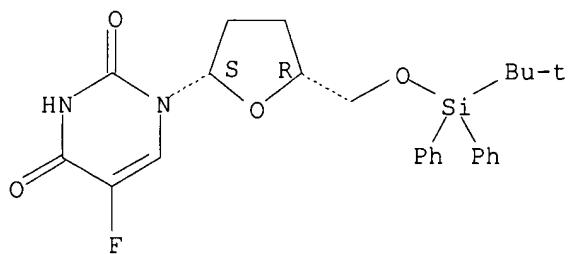
Absolute stereochemistry. Rotation (-).



RN 656798-99-1 HCPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 656799-00-7P 656799-01-8P 656799-03-0P

656799-05-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(dideoxynucleoside analog preparation for treatment or prevention of
flaviviridae infections)

RN 656799-00-7 HCAPLUS

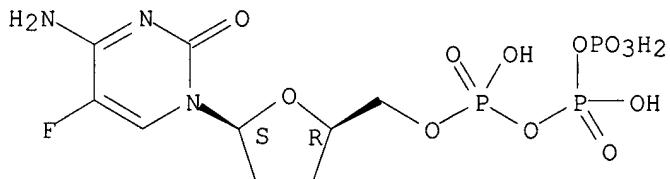
CN Triphosphoric acid, P-[(2R,5S)-5-(4-amino-5-fluoro-2-oxo-1(2H)-
pyrimidinyl)tetrahydro-2-furanyl]methyl ester, compd. with
N,N-diethylethanamine (9CI) (CA INDEX NAME)

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CRN 161170-31-6

CMF C9 H15 F N3 O12 P3

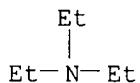
Absolute stereochemistry.



CM 2

CRN 121-44-8

CMF C6 H15 N



RN 656799-01-8 HCAPLUS

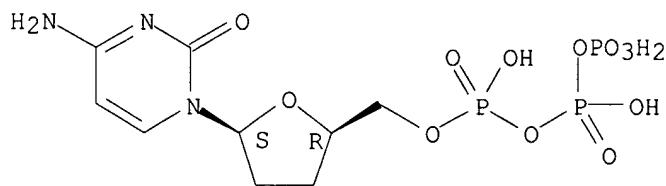
CN Triphosphoric acid, P-[(2R,5S)-5-(4-amino-2-oxo-1(2H)-
pyrimidinyl)tetrahydro-2-furanyl]methyl ester, compd. with
N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 161170-30-5

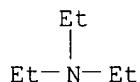
CMF C9 H16 N3 O12 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
CMF C6 H15 N

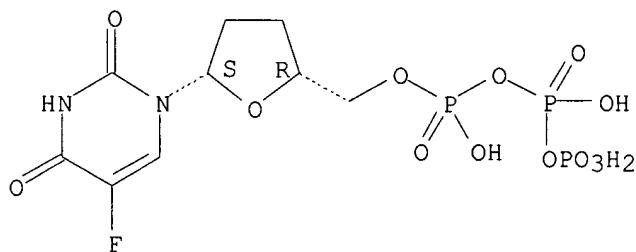


RN 656799-03-0 HCAPLUS
CN Triphosphoric acid, P-[[(2R,5S)-5-(5-fluoro-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

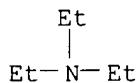
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CMF C9 H14 F N2 O13 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
CMF C6 H15 N



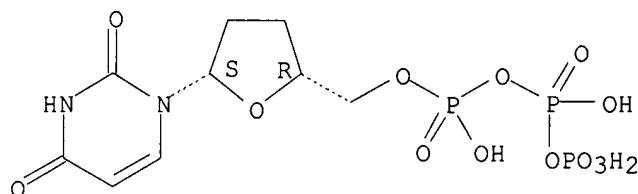
RN 656799-05-2 HCAPLUS
CN Triphosphoric acid, P-[[(2R,5S)-5-(3,4-dihydro-2,4-dioxo-1(2H)-

pyrimidinyl)tetrahydro-2-furanyl]methyl] ester, compd. with
N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

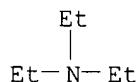
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CMF C9 H15 N2 O13 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
CMF C6 H15 N



L33 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:905731 HCPLUS
 DN 138:14152
 ED Entered STN: 29 Nov 2002
 TI Preparation of enzymic ribonucleic acid peptide conjugates as antitumor and antiviral agents and compositions for cellular delivery
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 PA Ribozyme Pharmaceuticals, Inc, USA
 SO PCT Int. Appl., 220 pp.
 CODEN: PIXXD2
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 IC ICM A61K
 CC 33-7 (Carbohydrates)
 Section cross-reference(s): 1, 7, 34, 63
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US 2004-570086P	P	20040511
US 2004-844076	A2	20040511
US 2004-844072	A2	20040512
WO 2004-US16390	A2	20040524
US 2004-863973	A2	20040609
US 2004-894475	A2	20040719
US 2004-922675	A2	20040820
US 2004-923475	A2	20040820
US 2004-923536	A2	20040820
US 2004-944611	A2	20040916
US 2005-31668	A1	20050106
US 2005-39680	A2	20050118
WO 2005-US4270	A2	20050209

US 2005-98303		A2	20050404
CLASS	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002094185		ICM	A61K
		IPCI	A61K [ICM, 7]
		IPCR	A61K [I,S]; A61K0006-00 [I,A]; A61K0006-00 [I,C*]; A61K0031-519 [I,A]; A61K0031-519 [I,C*]; A61K0031-52 [I,A]; A61K0031-7042 [I,C*]; A61K0031-7048 [I,A]; A61K0031-7052 [I,A]; A61K0031-706 [I,A]; A61K0031-7088 [I,A]; A61K0031-7088 [I,C*]; A61K0031-712 [I,A]; A61K0031-712 [I,C*]; A61P0031-00 [I,C*]; A61P0031-12 [I,A]; A61P0031-14 [I,A]; A61P0031-16 [I,A]; A61P0031-18 [I,A]; A61P0031-20 [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C*]; A61P0035-02 [I,A]; A61P0043-00 [I,A]; A61P0043-00 [I,C*]; C07D0475-00 [I,A]; C07D0475-00 [I,C*]; C07D0475-04 [I,A]; C07H0019-00 [I,C*]; C07H0019-16 [I,A]; C07H0019-167 [I,A]; C07H0019-207 [I,A]; C07H0019-22 [I,A]; C07H0021-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A]; C12P0017-18 [I,A]; C12P0017-18 [I,C*]; C12Q0001-68 [N,A]; C12Q0001-68 [N,C*]; G01N0033-53 [I,A]; G01N0033-53 [I,C*]
AU 9851819		ECLA	A61K047/48H4F4
		IPCI	C07H0021-02 [ICM, 6]; C07H0021-04 [ICS, 6]; C07H0021-00 [ICS, 6, C*]; C12N0015-11 [ICS, 6]; C12N0015-10 [ICS, 6]; C12N0005-10 [ICS, 6]; C12N0015-63 [ICS, 6]; A61K0038-43 [ICS, 6]; C12Q0001-68 [ICS, 6]
		IPCR	A61K0038-43 [I,A]; A61K0038-43 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C07H0021-04 [I,A]; C12N0005-10 [I,A]; C12N0005-10 [I,C*]; C12N0015-10 [I,A]; C12N0015-10 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-63 [I,A]; C12N0015-63 [I,C*]; C12Q0001-68 [I,A]; C12Q0001-68 [I,C*]
AU 9939188		IPCI	C12N0015-11 [ICM, 6]; C12N0009-00 [ICS, 6]; C12N0005-10 [ICS, 6]; A61K0048-00 [ICS, 6]
		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C12N0005-10 [I,A]; C12N0005-10 [I,C*]; C12N0009-00 [I,A]; C12N0009-00 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]
AU 769175		IPCI	C12N0015-11 [ICM, 7]; A61K0048-00 [ICS, 7]; C12N0005-10 [ICS, 7]; C12N0009-00 [ICS, 7]
		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C12N0005-10 [I,A]; C12N0005-10 [I,C*]; C12N0009-00 [I,A]; C12N0009-00 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]
EP 1572067		IPCI	A61K0006-00 [ICM, 7]
		IPCR	A61K [I,S]; A61K0006-00 [I,A]; A61K0006-00 [I,C*]; A61K0031-519 [I,A]; A61K0031-519 [I,C*]; A61K0031-52 [I,A]; A61K0031-7042 [I,C*]; A61K0031-7048 [I,A]; A61K0031-7052 [I,A]; A61K0031-706 [I,A]; A61K0031-7088 [I,A]; A61K0031-7088 [I,C*]; A61K0031-712 [I,A]; A61K0031-712 [I,C*]; A61P0031-00 [I,C*]; A61P0031-12 [I,A]; A61P0031-14 [I,A]; A61P0031-16 [I,A]; A61P0031-18 [I,A]; A61P0031-20 [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C*]; A61P0035-02 [I,A]; A61P0043-00 [I,A]; A61P0043-00 [I,C*]; C07D0475-00 [I,A]; C07D0475-00 [I,C*]; C07D0475-04 [I,A]; C07H0019-00 [I,C*]; C07H0019-16 [I,A]; C07H0019-167 [I,A]; C07H0019-207 [I,A]; C07H0019-22 [I,A];

		C07H0021-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A]; C12P0017-18 [I,A]; C12P0017-18 [I,C*]; C12Q0001-68 [N,A]; C12Q0001-68 [N,C*]; G01N0033-53 [I,A]; G01N0033-53 [I,C*]
CA 2447161	ECLA	A61K047/48H4F4
	IPCI	C07D0475-00 [ICM,7]; C07H0021-00 [ICS,7]; A61P0035-00 [ICS,7]; A61P0031-12 [ICS,7]; A61P0031-00 [ICS,7,C*]; C07H0019-16 [ICS,7]; C07H0019-167 [ICS,7]; C07H0019-22 [ICS,7]; C07H0019-00 [ICS,7,C*]; A61K0031-519 [ICS,7]; A61K0031-52 [ICS,7]; A61K0031-7048 [ICS,7]; A61K0031-7052 [ICS,7]; A61K0031-7042 [ICS,7,C*]; A61K0031-7088 [ICS,7]
	IPCR	A61K [I,S]; A61K0006-00 [I,A]; A61K0006-00 [I,C*]; A61K0031-519 [I,A]; A61K0031-519 [I,C*]; A61K0031-52 [I,A]; A61K0031-7042 [I,C*]; A61K0031-7048 [I,A]; A61K0031-7052 [I,A]; A61K0031-706 [I,A]; A61K0031-7088 [I,A]; A61K0031-7088 [I,C*]; A61K0031-712 [I,A]; A61K0031-712 [I,C*]; A61P0031-00 [I,C*]; A61P0031-12 [I,A]; A61P0031-14 [I,A]; A61P0031-16 [I,A]; A61P0031-18 [I,A]; A61P0031-20 [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C*]; A61P0035-02 [I,A]; A61P0043-00 [I,A]; A61P0043-00 [I,C*]; C07D0475-00 [I,A]; C07D0475-00 [I,C*]; C07D0475-04 [I,A]; C07H0019-00 [I,C*]; C07H0019-16 [I,A]; C07H0019-167 [I,A]; C07H0019-207 [I,A]; C07H0019-22 [I,A]; C07H0021-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A]; C12P0017-18 [I,A]; C12P0017-18 [I,C*]; C12Q0001-68 [N,A]; C12Q0001-68 [N,C*]; G01N0033-53 [I,A]; G01N0033-53 [I,C*]
JP 2005505504	ECLA	A61K047/48H4F4
	IPCI	C07D0475-04 [ICM,7]; C07D0475-00 [ICM,7,C*]; A61K0031-519 [ICS,7]; A61K0031-706 [ICS,7]; A61K0031-7042 [ICS,7,C*]; A61K0031-712 [ICS,7]; A61P0031-12 [ICS,7]; A61P0031-14 [ICS,7]; A61P0031-16 [ICS,7]; A61P0031-18 [ICS,7]; A61P0031-20 [ICS,7]; A61P0031-00 [ICS,7,C*]; A61P0035-00 [ICS,7]; A61P0035-02 [ICS,7]; A61P0043-00 [ICS,7]; C07H0019-207 [ICS,7]; C07H0019-00 [ICS,7,C*]; C07H0021-04 [ICS,7]; C07H0021-00 [ICS,7,C*]; C12P0017-18 [ICS,7]; G01N0033-53 [ICS,7]; C12Q0001-68 [ICS,7]
	IPCR	A61K [I,S]; A61K0006-00 [I,A]; A61K0006-00 [I,C*]; A61K0031-519 [I,A]; A61K0031-519 [I,C*]; A61K0031-52 [I,A]; A61K0031-7042 [I,C*]; A61K0031-7048 [I,A]; A61K0031-7052 [I,A]; A61K0031-706 [I,A]; A61K0031-7088 [I,A]; A61K0031-7088 [I,C*]; A61K0031-712 [I,A]; A61K0031-712 [I,C*]; A61P0031-00 [I,C*]; A61P0031-12 [I,A]; A61P0031-14 [I,A]; A61P0031-16 [I,A]; A61P0031-18 [I,A]; A61P0031-20 [I,A]; A61P0035-00 [I,A]; A61P0035-00 [I,C*]; A61P0035-02 [I,A]; A61P0043-00 [I,A]; A61P0043-00 [I,C*]; C07D0475-00 [I,A]; C07D0475-00 [I,C*]; C07D0475-04 [I,A]; C07H0019-00 [I,C*]; C07H0019-16 [I,A]; C07H0019-167 [I,A]; C07H0019-207 [I,A]; C07H0019-22 [I,A]; C07H0021-00 [I,A]; C07H0021-00 [I,C*]; C07H0021-04 [I,A]; C12P0017-18 [I,A]; C12P0017-18 [I,C*]; C12Q0001-68 [N,A]; C12Q0001-68 [N,C*]; G01N0033-53 [I,A]; G01N0033-53 [I,C*]
	FTERM	4B063/QA01; 4B063/QQ01; 4B063/QQ41; 4B063/QR41; 4B063/QR42; 4B063/QS36; 4B063/QX02; 4B063/QX07; 4B064/AE57; 4B064/CB06; 4B064/CC03; 4B064/CD12;

4B064/DA01; 4C057/AA17; 4C057/AA18; 4C057/BB02;
 4C057/BB05; 4C057/CC03; 4C057/DD01; 4C057/DD03;
 4C057/LL34; 4C057/LL41; 4C057/MM04; 4C057/MM05;
 4C057/MM09; 4C086/AA01; 4C086/AA02; 4C086/AA03;
 4C086/AA04; 4C086/CB09; 4C086/EA16; 4C086/EA18;
 4C086/MA01; 4C086/MA04; 4C086/NA14; 4C086/ZB21;
 4C086/ZB26; 4C086/ZB27; 4C086/ZB33; 4C086/ZC41;
 4C086/ZC55

US 2004110296 IPCI C12N0015-88 [ICM,7]; C12N0015-87 [ICM,7,C*];
 C07J0001-00 [ICS,7]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]
 NCL 435/458.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B3; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M

US 2004192626 IPCI A61K0048-00 [ICM]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]
 NCL 514/044.000
 ECLA A61K047/48H4F4; C12N015/11B1A; C12N015/11B3;
 C12N015/11D; C12N015/11H

US 2005080031 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0045-00
 [I,C*]; A61K0045-06 [I,A]; A61K0047-48 [I,A];
 A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02
 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*];
 C12N0015-87 [I,A]; C12N0015-87 [I,C*]
 NCL 514/044.000
 ECLA A61K045/06; A61K047/48H4; A61K047/48H4F4; C07H021/02;
 C12N015/11B; C12N015/11B1A; C12N015/11B2; C12N015/11B5;
 C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M;
 C12N015/87

US 2004249178 IPCI C07J0001-00 [ICM,7]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]
 NCL 552/506.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B3; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M

US 2005096284 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
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 C12N0015-87 [I,C*]
 NCL 514/044.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87

US 2005014172 IPCI C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]; A61K0048-00 [ICS,7]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A];
 C12N0015-87 [I,C*]
 NCL 435/006.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87

US 2005048529 IPCI C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00

[ICS, 7,C*]; A61K0048-00 [ICS, 7]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A];
 C12N0015-87 [I,C*]
 NCL 435/006.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87
 US 2005191638 IPCI C12Q0001-68 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]; A61K0048-00 [ICS, 7]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*];
 C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11
 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
 NCL 435/006.000
 ECLA A61K047/48H4; C07H021/02; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87
 US 2005032733 IPCI A61K0048-00 [ICM]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A];
 C12N0015-87 [I,C*]
 NCL 514/044.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87
 US 2005054598 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A];
 C12N0015-87 [I,C*]
 NCL 514/044.000
 ECLA A61K047/48H4F4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87
 US 2005148530 IPCI C07H0021-02 [ICM, 7]; C07H0021-00 [ICM, 7,C*];
 A61K0048-00 [ICS, 7]
 IPCR A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00
 [I,C*]; C07H0021-02 [I,A]
 NCL 514/044.000
 US 2005233996 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]
 NCL 514/044.000
 US 2005137153 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]
 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A];
 C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87
 [I,C*]
 NCL 514/044.000
 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87
 US 2005171039 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]
 IPCR A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00
 [I,C*]; C07H0021-02 [I,A]
 NCL 514/044.000
 US 2005159376 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7,C*]

US 2005137155 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

 NCL 514/044.000

 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87

US 2005143333 IPCI A61K0048-00 [ICM]; C07H0021-02 [ICS]; C07H0021-00 [ICS,C*]

 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]; H01L0021-02 [I,C*]; H01L0021-331 [I,A]; H01L0029-02 [I,C*]; H01L0029-08 [I,A]; H01L0029-161 [N,A]; H01L0029-40 [I,C*]; H01L0029-45 [I,A]; H01L0029-66 [I,C*]; H01L0029-737 [I,A]

 NCL 514/044.000

 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87; H01L021/331P2; H01L029/08B7; H01L029/45B; H01L029/737B

US 2005171040 IPCI A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]

 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

 NCL 514/044.000

 ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87

US 2005119211 IPCI A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICM,7,C*]; A61K0048-00 [ICS,7]

 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

 NCL 514/044.000

 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87

US 2005119212 IPCI C07H0021-02 [ICM,7]; C07H0021-00 [ICM,7,C*]; A61K0048-00 [ICS,7]

 IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

 NCL 514/044.000

 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B;

US 2005209179 IPCI C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87
 A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7, C*]
 IPCR A61K0048-00 [I, A]; A61K0048-00 [I, C*]; C07H0021-00
 [I, C*]; C07H0021-02 [I, A]
 NCL 514/044.000

US 2005124566 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7, C*]; C12N0015-85 [ICS, 7]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48
 [I, A]; A61K0047-48 [I, C*]; C07H0021-00 [I, C*];
 C07H0021-02 [I, A]; C12N0015-11 [I, A]; C12N0015-11
 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
 NCL 514/044.000
 ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005130181 IPCI A61K0048-00 [ICM, 7]; C12Q0001-68 [ICS, 7]; C07H0021-02
 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48
 [I, A]; A61K0047-48 [I, C*]; C07H0021-00 [I, C*];
 C07H0021-02 [I, A]; C12N0015-11 [I, A]; C12N0015-11
 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
 NCL 435/006.000
 ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005124567 IPCI A61K0048-00 [ICM, 7]; C07H0021-04 [ICS, 7]; C07H0021-02
 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48
 [I, A]; A61K0047-48 [I, C*]; C07H0021-00 [I, C*];
 C07H0021-02 [I, A]; C12N0015-11 [I, A]; C12N0015-11
 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
 NCL 514/044.000
 ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005124568 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7, C*]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48
 [I, A]; A61K0047-48 [I, C*]; C12N0015-11 [I, A];
 C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87
 [I, C*]
 NCL 514/044.000
 ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005124569 IPCI A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00
 [ICS, 7, C*]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0045-00
 [I, C*]; A61K0045-06 [I, A]; A61K0047-48 [I, A];
 A61K0047-48 [I, C*]; C12N0015-11 [I, A]; C12N0015-11
 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
 NCL 514/044.000
 ECLA A61K045/06; A61K047/48H4; A61K047/48H4F4; C12N015/11B;
 C12N015/11B1A; C12N015/11B2; C12N015/11B5;
 C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M;
 C12N015/87

US 2005164224 IPCI C12Q0001-68 [ICM, 7]
 IPCR A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48

[I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A];
 C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87
 [I,C*]

NCL 435/006.000

ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005070497 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]

IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; C12N0015-11
 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A];
 C12N0015-87 [I,C*]

NCL 514/044.000

ECLA A61K047/48H4; C12N015/11B; C12N015/11B1A;
 C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H;
 C12N015/11M; C12N015/87

US 2005176663 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]

IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*];
 C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11
 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

NCL 514/044.000

ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005196765 IPCI C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]; A61K0048-00 [ICM,7]

IPCR A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00
 [I,C*]; C07H0021-02 [I,A]; C12Q0001-68 [I,A];
 C12Q0001-68 [I,C*]

NCL 435/006.000

US 2005277608 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]

NCL 514/044.000

US 2005182006 IPCI A61K0048-00 [ICM,7]

IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*];
 C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11
 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

NCL 514/044.000

ECLA A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005159378 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]

IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A];
 C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87
 [I,C*]

NCL 514/044.000

ECLA A61K047/48H4; A61K047/48H4F4; C12N015/11B;
 C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D;
 C12N015/11H; C12N015/11M; C12N015/87

US 2005159379 IPCI A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00
 [ICS,7,C*]

IPCR A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48
 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*];
 C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11
 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]

	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005158735	IPCI	A61K0048-00 [ICM, 7]; C12Q0001-68 [ICS, 7]; C07H0021-02 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
	IPCR	A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48 [I, A]; A61K0047-48 [I, C*]; C12N0015-11 [I, A]; C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
	NCL	435/006.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005153914	IPCI	A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
	IPCR	A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48 [I, A]; A61K0047-48 [I, C*]; C12N0015-11 [I, A]; C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005164966	IPCI	A61K0048-00 [ICM, 7]
	IPCR	A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48 [I, A]; A61K0047-48 [I, C*]; C07H0021-00 [I, C*]; C07H0021-02 [I, A]; C12N0015-11 [I, A]; C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005203040	IPCI	A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
	IPCR	A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48 [I, A]; A61K0047-48 [I, C*]; C07H0021-00 [I, C*]; C07H0021-02 [I, A]; C12N0015-11 [I, A]; C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005176664	IPCI	A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
	IPCR	A61K0038-00 [N, A]; A61K0038-00 [N, C*]; A61K0047-48 [I, A]; A61K0047-48 [I, C*]; C12N0015-11 [I, A]; C12N0015-11 [I, C*]; C12N0015-87 [I, A]; C12N0015-87 [I, C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005176665	IPCI	A61K0048-00 [ICM, 7]; C12Q0001-68 [ICS, 7]; C07H0021-02 [ICS, 7]; C07H0021-00 [ICS, 7, C*]
	IPCR	A61K0048-00 [I, A]; A61K0048-00 [I, C*]; C07H0021-00 [I, C*]; C07H0021-02 [I, A]; C12Q0001-68 [I, A]; C12Q0001-68 [I, C*]
	NCL	514/044.000
US 2005233997	IPCI	A61K0048-00 [ICM, 7]; C07H0021-02 [ICS, 7]; C07H0021-00

		[ICS,7,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005136436	IPCI	C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]; A61K0048-00 [ICS,7]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	435/006.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005153915	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]; C12N0015-85 [ICS,7]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005159380	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005159382	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005164967	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005079610	IPCI	C07H0021-02 [ICM,7]; C07H0021-00 [ICM,7,C*]; A61K0048-00 [ICS,7]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11

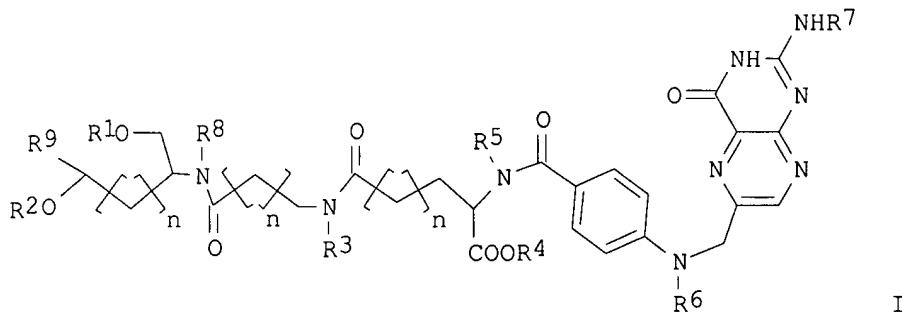
		[I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	435/375.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005153916	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005159381	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005164968	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005170371	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	435/006.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005176666	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005176024	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0045-00 [I,C*]; A61K0045-06 [I,A]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02

		[I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	435/006.000
	ECLA	A61K045/06; A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B2; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005176025	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	435/006.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005182007	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005182008	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0031-7088 [I,A]; A61K0031-7088 [I,C*]; A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K031/7088; A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005182009	IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005187174	IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
	NCL	514/044.000
	ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005191618	IPCI	A61K0048-00 [ICM,7]; C12Q0001-70 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]

		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12Q0001-70 [I,A]; C12Q0001-70 [I,C*]
		NCL	435/005.000
US 2005196767		IPCI	C12Q0001-68 [ICM,7]; C07H0021-04 [ICS,7]; C07H0021-00 [ICS,7,C*]; A61K0048-00 [ICS,7]
		IPCR	A61K0038-00 [N,A]; A61K0038-00 [N,C*]; A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12N0015-11 [I,A]; C12N0015-11 [I,C*]; C12N0015-87 [I,A]; C12N0015-87 [I,C*]
		NCL	435/006.000
		ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005227935		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005227936		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005233344		IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	435/006.000
		ECLA	A61K047/48H4; A61K047/48H4F4; C07H021/02; C12N015/11B; C12N015/11B1A; C12N015/11B5; C12N015/11B7; C12N015/11D; C12N015/11H; C12N015/11M; C12N015/87
US 2005239731		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005256068		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005267058		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005288242		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005209180		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]
		NCL	514/044.000
US 2005233998		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		NCL	514/044.000
US 2005222066		IPCI	A61K0048-00 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]
		NCL	514/044.000
US 2005261219		IPCI	A61K0048-00 [ICM,7]; C12N0015-85 [ICS,7]; C12Q0001-68 [ICS,7]
		NCL	514/044.000
US 2005196781		IPCI	A61K0048-00 [ICM,7]; C12Q0001-68 [ICS,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
		IPCR	A61K0048-00 [I,A]; A61K0048-00 [I,C*]; C07H0021-00 [I,C*]; C07H0021-02 [I,A]; C12Q0001-68 [I,A]; C12Q0001-68 [I,C*]
		NCL	435/006.000

US 2006019913	IPCI	A61K0048-00 [I,A]; C07H0021-02 [I,A]; C07H0021-00 [I,C*]
	NCL	514/044.000
US 2006025361	IPCI	A61K0048-00 [I,A]; C07H0021-04 [I,A]; C07H0021-00 [I,C*]
	NCL	514/044.000
US 2005287128	IPCI	A61K0048-00 [ICM,7]; C12N0005-08 [ICS,7]; C12N0015-85 [ICS,7]
	NCL	424/093.210
US 2005260620	IPCI	C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]; A61K0048-00 [ICS,7]
	NCL	435/006.000
US 2005277133	IPCI	C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]
	NCL	435/006.000
US 2005282188	IPCI	C12Q0001-68 [ICM,7]; C07H0021-02 [ICS,7]; C07H0021-00 [ICS,7,C*]; A61K0048-00 [ICS,7]
	NCL	435/006.000
US 2006019917	IPCI	A61K0048-00 [I,A]; C07H0021-04 [I,A]; C07H0021-02 [I,A]; C07H0021-00 [I,C*]
	NCL	514/044.000

GI



AB This invention features peptide nucleotide conjugates I wherein each R1-R8 are independently hydrogen, alkyl, substituted alkyl, aryl, substituted aryl, or a protecting group, each "n" is independently an integer from 0 to about 200, R9 is a straight or branched chain alkyl, substituted alkyl, aryl, or substituted aryl, and R2 is a phosphorus containing group, nucleoside, nucleotide, small mol., nucleic acid, or a solid support comprising a linker., degradable linkers, compns., methods of synthesis, and applications thereof, including folate, galactose, galactosamine, N-acetyl galactosamine, PEG, phospholipid, peptide and human serum albumin (HAS) derived conjugates of biol. active compds., including antibodies, antivirals, chemotherapeutics, peptides, proteins, hormones nucleosides, nucleotides, non-nucleosides, and nucleic acids including enzymic nucleic acids, DNAzymes, allozymes, antisense, dsRNA, siRNA, triplex oligonucleotides, 2,5-A chimeras, decoys and aptamers. Thus, 1-O-(4-monomethoxytrityl)-N-(12'-hydroxydodecanoyl-2-acetamido-3,4,6-tri-O-acetyl-2-deoxy-3-D-galactopyranose)-D-threoninol 3-O-(2-cyanoethyl,N,N-diisopropylphosphorami-dite) was prepared and incorporated into RNA. A method of treating a cancer patient, comprising contacting cells of patient wherein said cancer is breast cancer, lung cancer, colorectal cancer, brain cancer, esophageal cancer, stomach cancer, bladder cancer, pancreatic cancer, cervical cancer, head and neck cancer, ovarian cancer, melanoma, lymphoma, glioma, or multidrug resistant cancers and/or viral

infections including HIV, HBV, HCV, CMV, RSV, HSV, poliovirus, influenza, rhinovirus, west nile virus, Ebola virus, foot and mouth virus, and papilloma.

ST antitumor multidrug resistant nucleotide RNA enzyme prepn; hormone nucleoside nucleotide RNA enzyme antisense prepn antiviral glycophospholipid; antibody enzymic oligoribonucleotide peptide prepn antiviral hammerhead enzyme antisense; enzymic ribonucleic acid peptide prepn antiviral triplex oligoribonucleotide human

IT Quaternary structure
(DNA triplex; preparation of enzymic RNA peptide conjugates as antitumor and antiviral agents and compns. for cellular delivery)

IT Uterus, neoplasm
(cervix; preparation of enzymic RNA peptide conjugates as antitumor and antiviral agents and compns. for cellular delivery)

IT Nucleic acids
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(enzymic-hammerhead, inozyme, DNAzyme, G-cleaver, zinzyne, amberzyme and allozyme; preparation of enzymic RNA peptide conjugates as antitumor and antiviral agents and compns. for cellular delivery)

IT Albumins, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(human serum; preparation of enzymic RNA peptide conjugates as antitumor and antiviral agents and compns. for cellular delivery)

IT Antitumor agents
Antiviral agents
Brain
Brain, neoplasm
Cytomegalovirus
Ebola virus
Foot-and-mouth disease virus
Head and Neck
Head and Neck
Hepatitis B virus
Hepatitis C virus
Human
Human immunodeficiency virus
Human poliovirus
Influenza
Lung
Lung, neoplasm
Lymphoma
Mammary gland
Mammary gland, neoplasm
Melanoma
Multidrug resistance
Neoplasm
Neuroglia, neoplasm
Ovary, neoplasm
Pancreas
Pancreas, neoplasm
Papilloma
Papillomavirus
Rhinovirus
Rous sarcoma virus
Stomach
West Nile virus
(preparation of enzymic RNA peptide conjugates as antitumor and antiviral agents and compns. for cellular delivery)

IT Enzymes, biological studies
Glycophospholipids

Hormones, animal, biological studies

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT Glycopeptides

Nucleotides, preparation

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT Double stranded RNA

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT Infection

(viral; preparation of enzymic RNA peptide conjugates as antitumor and
antiviral agents and compns. for cellular delivery)

IT 316-46-1 5536-17-4 21679-14-1, Fludarabine 29984-33-6 30516-87-1,
AZT 36791-04-5, Ribavirin 39809-25-1, Penciclovir 59277-89-3,
Acyclovir 69123-98-4, Fialuridine 82410-32-0, Ganciclovir
104227-87-4, Famciclovir 114987-19-8, Cytallene 121154-51-6
127759-89-1, Lobucavir 134678-17-4, Lamivudine 142217-69-4, BMS 200475
142340-99-6 143491-54-7, FTC 147058-39-7 163252-36-6, L-FMAU
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT 100-66-3, Anisole, reactions 150-13-0 524-38-9, N-Hydroxyphthalimide
616-30-8 1811-31-0 2127-03-9 2592-95-2, 1-Hydroxybenzotriazole
14470-28-1, p-Anisylchlorodiphenylmethane 30453-21-5D, enzymic nucleic
acid deribs. 84793-07-7 88574-06-5 109581-83-1 133906-29-3
173209-23-9 252847-30-6

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT 10385-50-9P 99837-97-5P 141925-93-1P 449807-11-8P 449807-12-9P
449807-13-0P 449807-14-1P 449807-15-2P 449807-17-4P 449807-19-6P
449807-20-9P 449807-21-0P 449807-22-1P 449807-24-3P 449807-25-4P
449807-26-5P 475575-52-1P 475575-53-2P 475575-54-3P 475575-55-4P
475575-56-5DP, enzymic nucleic acid deribs. 475575-57-6P 475575-58-7P
475575-59-8P 475575-60-1P 475575-61-2P 475575-62-3P 475575-85-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of enzymic RNA peptide conjugates as antitumor and antiviral
agents and compns. for cellular delivery)

IT 477694-12-5 477694-13-6 477694-14-7 477694-15-8 477694-16-9
477694-17-0 477694-18-1 477694-19-2

RL: PRP (Properties)

(unclaimed nucleotide sequence; preparation of enzymic RNA peptide
conjugates as antitumor and antiviral agents and compns. for cellular
delivery)

IT 123251-89-8 143189-32-6 161007-71-2 188842-14-0 199792-56-8
213546-53-3 220337-28-0 395069-93-9 477586-11-1 477586-12-2
477586-13-3 477586-14-4

RL: PRP (Properties)

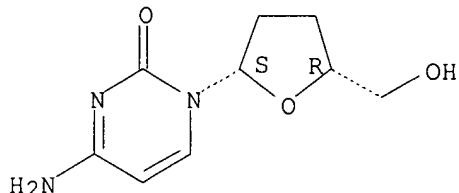
(unclaimed sequence; preparation of enzymic RNA peptide conjugates as
antitumor and antiviral agents and compns. for cellular delivery)

IT 121154-51-6

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (preparation of enzymic RNA peptide conjugates as antitumor and antiviral
 agents and compns. for cellular delivery)

RN 121154-51-6 HCPLUS
 CN 2 (1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L33 ANSWER 3 OF 3 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:617821 HCPLUS
 DN 135:175348
 ED Entered STN: 24 Aug 2001
 TI Use of N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compounds for
 treating hepatitis virus infections
 IN Mueller, Richard A.; Bryant, Martin L.
 PA Pharmacia Corporation, USA
 SO PCT Int. Appl., 116 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K0031-445
 ICS A61P0031-14
 CC 1-5 (Pharmacology)

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001060366	A1	20010823	WO 2001-US4512	20010213 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU	2001036938	A5	20010827	AU 2001-36938	20010213 <--
EP	1261339	A1	20021204	EP 2001-909153	20010213 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2003522791	T2	20030729	JP 2001-559463	20010213 <--
US	2005119310	A1	20050602	US 2002-203769	20010213 <--
PRAI	US 2000-182362P	P	20000214 <--		
	WO 2001-US4512	W	20010213 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001060366	ICM	A61K0031-445
	ICS	A61P0031-14

	IPCI	A61K0031-445 [ICM,7]; A61P0031-14 [ICS,7]; A61P0031-00 [ICS,7,C*]
	IPCR	A61K0031-445 [I,A]; A61K0031-445 [I,C*]; A61K0045-00 [I,C*]; A61K0045-06 [I,A]
	ECLA	A61K031/445; A61K045/06
AU 2001036938	IPCI	A61K0031-445 [ICM,7]; A61P0031-14 [ICS,7]; A61P0031-00 [ICS,7,C*]
	IPCR	A61K0031-445 [I,A]; A61K0031-445 [I,C*]; A61K0045-00 [I,C*]; A61K0045-06 [I,A]
EP 1261339	IPCI	A61K0031-445 [ICM,6]; A61P0031-14 [ICS,6]; A61P0031-00 [ICS,6,C*]
	IPCR	A61K0031-445 [I,A]; A61K0031-445 [I,C*]; A61K0045-00 [I,C*]; A61K0045-06 [I,A]
JP 2003522791	IPCI	A61K0031-445 [ICM,7]; A61P0001-16 [ICS,7]; A61P0001-00 [ICS,7,C*]; A61P0031-20 [ICS,7]; A61P0031-00 [ICS,7,C*]; C07D0211-46 [ICS,7]; C07D0211-00 [ICS,7,C*]
	IPCR	A61K0031-445 [I,A]; A61K0031-445 [I,C*]; A61K0045-00 [I,C*]; A61K0045-06 [I,A]
US 2005119310	IPCI	A61K0031-445 [ICM,7]
	NCL	514/328.000

AB Provided are methods and compns. for treating hepatitis virus infections in mammals, especially humans. The methods comprise (1) administering N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compds. alone or in combination with nucleoside antiviral agents, nucleotide antiviral agents, mixts. thereof, or immunomodulating/immunostimulating agents, or (2) administering N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compds. alone or in combination with nucleoside antiviral agents, nucleotide antiviral agents, or mixts. thereof, and immunomodulating/immuno stimulating agents.

ST hepatitis virus iminoglucitol deriv nucleoside nucleotide; immunomodulator antiviral hepatitis virus iminoglucitol deriv

IT Hepatitis

(B; treatment of hepatitis B and C virus infections with dideoxyiminoglucitols and antiviral nucleosides and nucleotides)

IT Hepatitis

(C; treatment of hepatitis B and C virus infections with dideoxyiminoglucitols and antiviral nucleosides and nucleotides)

IT Antiviral agents

Hepatitis B virus

Hepatitis C virus

Immunomodulators

Immunostimulants

(treatment of hepatitis B and C virus infections with dideoxyiminoglucitols and antiviral nucleosides and nucleotides)

IT 3056-17-5, Stavudine 5536-17-4, Ara-A 7481-89-2, Dideoxycytidine 25526-93-6 29984-33-6, Ara-AMP 30516-87-1, 3'-Azido-3'-deoxythymidine 36791-04-5, 1- β -D-Ribofuranosyl-1,2,4-triazole-3-carboxamide 39809-25-1, Penciclovir 59277-89-3, Acyclovir 66341-18-2, Acyclovir triphosphate 69123-90-6, FIAC 69123-98-4, FIAU 69256-17-3, FMAU 69655-05-6, Dideoxyinosine 72458-45-8 72458-46-9 73243-67-1 77222-61-8 79206-10-3 79206-12-5 79206-14-7 79206-20-5 79206-22-7 79570-63-1 81117-35-3 81117-36-4 81117-38-6 82410-32-0, Ganciclovir 85326-06-3 87190-81-6 104227-87-4, Famciclovir 106941-25-7, PMEA 111687-37-7, D-Carbocyclic-2'-deoxyguanosine 115183-38-5 115249-95-1 **121154-51-6** 128985-11-5 131167-83-4 134678-17-4, 3TC 134680-32-3 137530-41-7 143491-54-7, FTC 143491-57-0 143616-58-4 147058-39-7 160632-03-1 160632-05-3 162398-48-3 162398-56-3 211987-28-9 211987-29-0 211987-30-3 211987-31-4 211987-32-5 211987-33-6 211987-34-7 211987-35-8 211987-36-9 211987-37-0 211987-38-1 211987-39-2 211987-40-5 211987-41-6 211987-42-7 211987-43-8 211987-44-9

211987-45-0	211987-46-1	211987-47-2	211987-48-3	211987-49-4
211987-50-7	211987-51-8	211987-52-9	211987-53-0	211987-54-1
211987-55-2	211987-56-3	211987-57-4	211987-58-5	211987-59-6
211987-60-9	211987-61-0	211987-62-1	223771-90-2	223772-09-6
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238075-09-7	238075-10-0	238075-11-1	238075-12-2	238075-13-3
238075-14-4	238075-15-5	238075-16-6	238075-17-7	238075-18-8
238075-19-9	238075-20-2	238075-21-3	238075-22-4	

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of hepatitis B and C virus infections with dideoxymimoglucitols and antiviral nucleosides and nucleotides)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Block, T; NATURE MEDICINE 1998, V4(5), P610 HCAPLUS
- (2) Block, T; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA 1994, V91(6), P2235 HCAPLUS
- (3) Dwek, R; WO 9835685 A 1998 HCAPLUS
- (4) Mueller, R; WO 9940916 A 1999 HCAPLUS
- (5) Mueller, R; WO 0047198 A 2000 HCAPLUS
- (6) Platt, F; CHEMTRACTS ORGANIC CHEMISTRY 1994, P106
- (7) Searle & Co; WO 9519172 A 1995 HCAPLUS
- (8) Zitzmann, N; WO 9929321 A 1999 HCAPLUS
- (9) Zitzmann, N; PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA 1999, V96(21), P11878 HCAPLUS

IT 121154-51-6

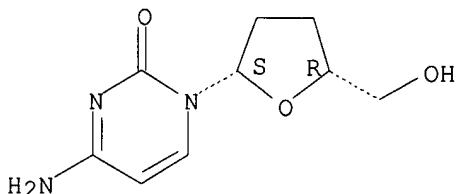
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of hepatitis B and C virus infections with dideoxymimoglucitols and antiviral nucleosides and nucleotides)

RN 121154-51-6 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



=> fil reg

FILE 'REGISTRY' ENTERED AT 09:14:24 ON 27 JUN 2006

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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STRUCTURE FILE UPDATES: 26 JUN 2006 HIGHEST RN 889573-50-6

DICTIONARY FILE UPDATES: 26 JUN 2006 HIGHEST RN 889573-50-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
*****
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

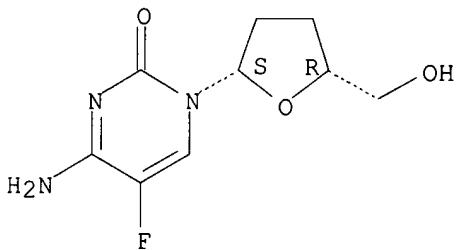
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> => d ide can l16

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 147058-39-7 REGISTRY
ED Entered STN: 20 Apr 1993
CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-
OTHER NAMES:
CN β-L-2',3'-Dideoxy-5-fluorocytidine
FS STEREOSEARCH
DR 174541-05-0
MF C9 H12 F N3 O3
SR CA
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, IMSDRUGNEWS, IMSRESEARCH,
MEDLINE, PROUSDDR, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 58 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:488682
 REFERENCE 2: 142:170033
 REFERENCE 3: 141:400969
 REFERENCE 4: 141:325184
 REFERENCE 5: 141:225774
 REFERENCE 6: 140:157421
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 REFERENCE 8: 137:333119
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 REFERENCE 10: 136:47974

=> d ide can 117 tot

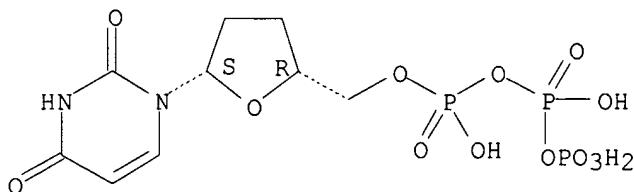
L17 ANSWER 1 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 656799-05-2 REGISTRY
 ED Entered STN: 02 Mar 2004
 CN Triphosphoric acid, P-[(2R,5S)-5-(3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl ester, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C9 H15 N2 O13 P3 . x C6 H15 N
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 656799-04-1
 CMF C9 H15 N2 O13 P3

From applicants:

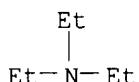
Absolute stereochemistry.



10 / 632875

CM 2

CRN 121-44-8
 CMF C6 H15 N



1 REFERENCES IN FILE CA (1907 TO DATE)
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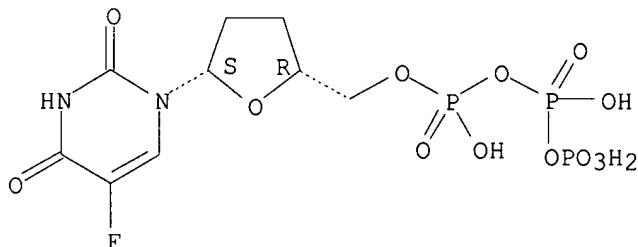
REFERENCE 1: 140:157421

L17 ANSWER 2 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 656799-03-0 REGISTRY
 ED Entered STN: 02 Mar 2004
 CN Triphosphoric acid, P-[(2R,5S)-5-(5-fluoro-3,4-dihydro-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl ester, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C9 H14 F N2 O13 P3 . x C6 H15 N
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

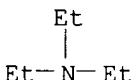
CRN 656799-02-9
 CMF C9 H14 F N2 O13 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
 CMF C6 H15 N



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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

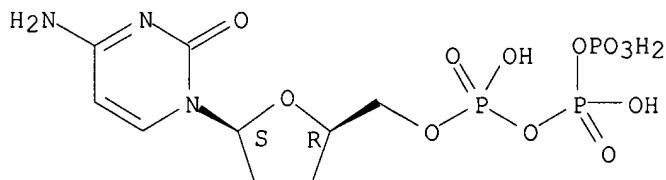
REFERENCE 1: 140:157421

L17 ANSWER 3 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **656799-01-8** REGISTRY
 ED Entered STN: 02 Mar 2004
 CN Triphosphoric acid, P-[[(2R,5S)-5-(4-amino-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C9 H16 N3 O12 P3 . x C6 H15 N
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

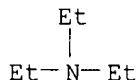
CRN 161170-30-5
 CMF C9 H16 N3 O12 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
 CMF C6 H15 N



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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

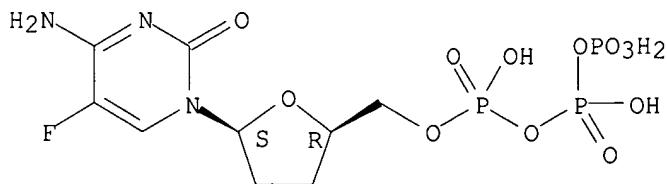
REFERENCE 1: 140:157421

L17 ANSWER 4 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **656799-00-7** REGISTRY
 ED Entered STN: 02 Mar 2004
 CN Triphosphoric acid, P-[[(2R,5S)-5-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C9 H15 F N3 O12 P3 . x C6 H15 N
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

CM 1

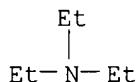
CRN 161170-31-6
 CMF C9 H15 F N3 O12 P3

Absolute stereochemistry.



CM 2

CRN 121-44-8
CMF C6 H15 N

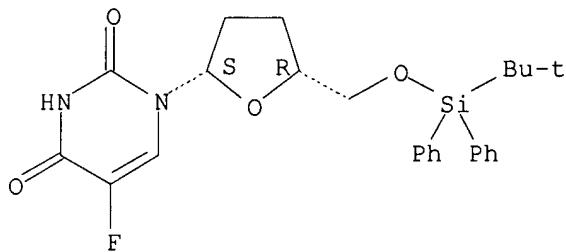


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:157421

L17 ANSWER 5 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 656798-99-1 REGISTRY
 ED Entered STN: 02 Mar 2004
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-5-[[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-5-fluoro-(9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C25 H29 F N2 O4 Si
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



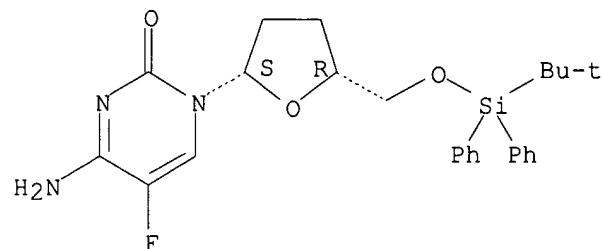
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:157421

L17 ANSWER 6 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **189818-67-5** REGISTRY
 ED Entered STN: 13 Jun 1997
 CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-5-fluoro-(9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2(1H)-Pyrimidinone, 4-amino-1-[5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-5-fluoro-, (2S-cis)-
 FS STEREOSEARCH
 MF C25 H30 F N3 O3 Si
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).



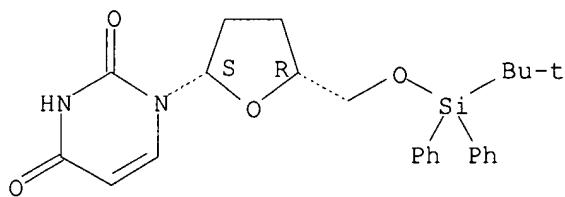
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4 REFERENCES IN FILE CA (1907 TO DATE)
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REFERENCE 1: 140:157421
 REFERENCE 2: 128:308706
 REFERENCE 3: 128:75639
 REFERENCE 4: 126:343801

L17 ANSWER 7 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN **169527-97-3** REGISTRY
 ED Entered STN: 02 Nov 1995
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[5-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-, (2S-cis)-
 FS STEREOSEARCH
 MF C25 H30 N2 O4 Si
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:157421

REFERENCE 2: 123:286530

L17 ANSWER 8 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 161170-31-6 REGISTRY

ED Entered STN: 02 Mar 1995

CN Triphosphoric acid, P-[(2R,5S)-[5-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Triphosphoric acid, P-[[5-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl] ester, (2R-cis)-

FS STEREOSEARCH

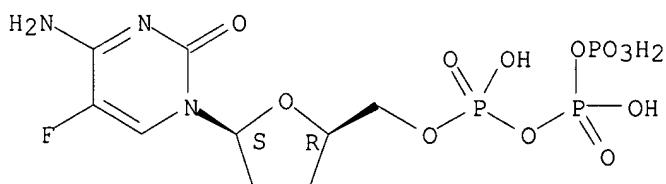
MF C9 H15 F N3 O12 P3

CI COM

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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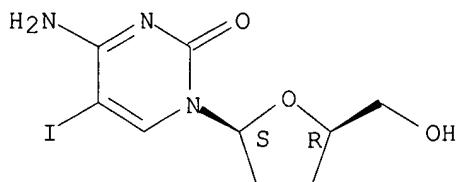
REFERENCE 6: 124:306640

REFERENCE 7: 124:215

REFERENCE 8: 122:154909

L17 ANSWER 9 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 160963-16-6 REGISTRY
 ED Entered STN: 21 Feb 1995
 CN 2(1H)-Pyrimidinone, 4-amino-5-iodo-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2(1H)-Pyrimidinone, 4-amino-5-iodo-1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-
 FS STEREOSEARCH
 MF C9 H12 I N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

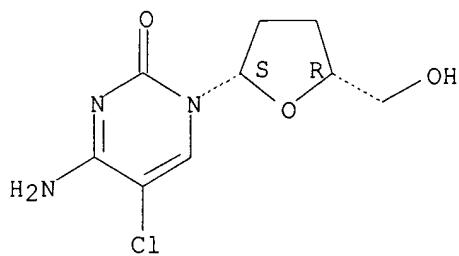
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REFERENCE 1: 140:157421

REFERENCE 2: 122:123093

L17 ANSWER 10 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 160963-15-5 REGISTRY
 ED Entered STN: 21 Feb 1995
 CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2(1H)-Pyrimidinone, 4-amino-5-chloro-1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-
 FS STEREOSEARCH
 MF C9 H12 Cl N3 O3
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
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REFERENCE 2: 140:157421

REFERENCE 3: 136:47974

REFERENCE 4: 133:83920

REFERENCE 5: 122:123093

L17 ANSWER 11 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 153547-98-9 REGISTRY

ED Entered STN: 10 Mar 1994

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,4(1H,3H)-Pyrimidinedione, 1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-

OTHER NAMES:

CN β-L-2',3'-Dideoxyuridine

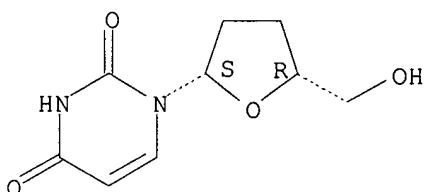
FS STEREOSEARCH

MF C9 H12 N2 O4

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry. Rotation (-).



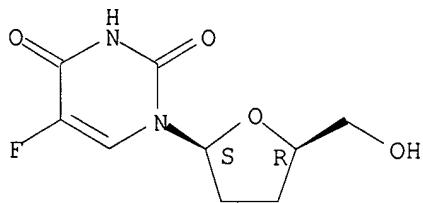
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 REFERENCE 4: 126:343812
 REFERENCE 5: 126:104343
 REFERENCE 6: 125:115093
 REFERENCE 7: 125:108579
 REFERENCE 8: 123:286530
 REFERENCE 9: 122:282253
 REFERENCE 10: 122:123093

L17 ANSWER 12 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 153547-97-8 REGISTRY
 ED Entered STN: 10 Mar 1994
 CN 2,4(1H,3H)-Pyrimidinedione, 5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2,4(1H,3H)-Pyrimidinedione, 5-fluoro-1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-
 FS STEREOSEARCH
 MF C9 H11 F N2 O4
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:157421
 REFERENCE 2: 123:286530
 REFERENCE 3: 120:182418

L17 ANSWER 13 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 128112-71-0 REGISTRY
 ED Entered STN: 13 Jul 1990
 CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-5-[[[(1,1-

dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(1H)-Pyrimidinone, 4-amino-1-[5-[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]tetrahydro-2-furanyl]-, (2S-cis)-

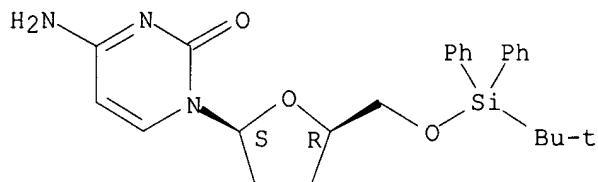
FS STEREOSEARCH

MF C25 H31 N3 O3 Si

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 140:157421

REFERENCE 2: 113:41231

L17 ANSWER 14 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN

RN 121154-51-6 REGISTRY

ED Entered STN: 16 Jun 1989

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2(1H)-Pyrimidinone, 4-amino-1-[tetrahydro-5-(hydroxymethyl)-2-furanyl]-, (2S-cis)-

OTHER NAMES:

CN β-L-2',3'-Dideoxycytidine

CN 36: PN: DE102004051804 PAGE: 22 claimed sequence

CN L-DdC

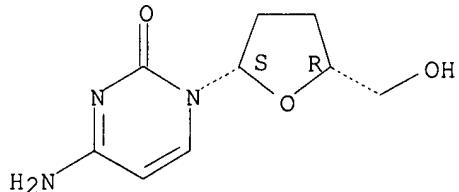
FS STEREOSEARCH

MF C9 H13 N3 O3

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMINFORMRX, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



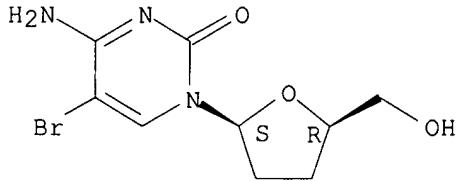
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 REFERENCE 3: 141:325184
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 REFERENCE 6: 137:29517
 REFERENCE 7: 136:397775
 REFERENCE 8: 136:355410
 REFERENCE 9: 136:47974
 REFERENCE 10: 135:205124

L17 ANSWER 15 OF 15 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 107036-57-7 REGISTRY
 ED Entered STN: 14 Mar 1987
 CN Cytidine, 5-bromo-2',3'-dideoxy- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2',3'-Dideoxy-5-bromocytidine
 CN 5-Bromo-2',3'-dideoxycytidine
 FS STEREOSEARCH
 MF C9 H12 Br N3 O3
 SR CA
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

8 REFERENCES IN FILE CA (1907 TO DATE)
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REFERENCE 6: 111:58275
REFERENCE 7: 108:269
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=> fil reg
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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 27 JUN 2006 HIGHEST RN 889765-67-7
DICTIONARY FILE UPDATES: 27 JUN 2006 HIGHEST RN 889765-67-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

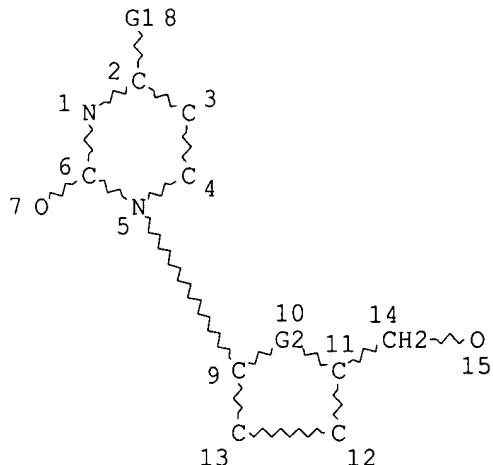
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*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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L1 STR

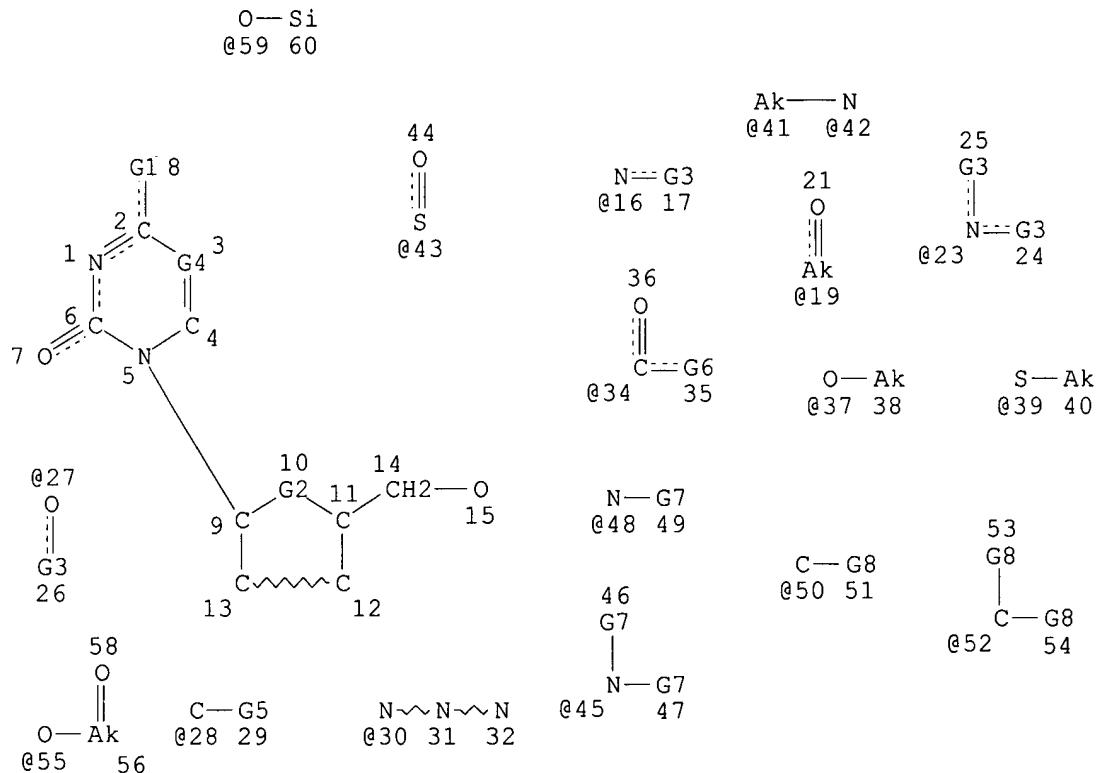


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VAR G2=O/S/N/C
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC 9 5
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L2 3169 SEA FILE=REGISTRY SSS FUL L1
 L3 STR



VAR G1=N/16/23/O/27
 VAR G2=O/S/43/SO2/N/48/45/C/50/52
 VAR G3=AK/CB/19
 VAR G4=C/28
 VAR G5=X/AK/CN/CF3/30/NO2/CY/CHO/34
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GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

L5 1913 SEA FILE=REGISTRY SUB=L2 CSS FUL L3

100.0% PROCESSED 3103 ITERATIONS

1913 ANSWERS

SEARCH TIME: 00.00.01

=> d ide can 117

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN

RN 9026-28-2 REGISTRY

ED Entered STN: 16 Nov 1984

CN Nucleotidyltransferase, ribonuclease, RNA-dependent (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3D Polymerase

CN E.C. 2.7.7.48

CN Gene PB2 polymerase

CN Hepatitis C virus polymerase

CN Hepatitis C virus polymerase NS5B

CN NS5B polymerase

CN NS5B RNA-dependent RNA polymerase

CN PB1 polymerase

CN PB1 proteins

CN PB2 polymerase

CN PB2 proteins

CN Phage f2 replicase

CN Polymerase L

CN Proteins, λ3, of reovirus

CN Proteins, PB 2

CN Proteins, PB1

CN Q-Beta replicase

CN Qβ-replicase

CN Replicase, phage f2

CN Replicase, Qβ-

CN Ribonucleic acid replicase

CN Ribonucleic acid-dependent ribonuclease nucleotidyltransferase

CN Ribonucleic acid-dependent ribonucleic acid polymerase

CN Ribonucleic replicase

CN Ribonucleic synthetase

CN RNA replicase

CN RNA synthetase

CN RNA transcriptase

CN RNA-dependent ribonuclease nucleotidyltransferase

CN RNA-dependent RNA polymerase

CN RNA-dependent RNA polymerase NS5B

CN RNA-dependent RNA replicase

CN RNA-directed RNA polymerase

CN Transcriptase

MF Unspecified

CI MAN

LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CIN, EMBASE, PROMT, TOXCENTER, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3603 REFERENCES IN FILE CA (1907 TO DATE)
 38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3617 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 145:4051
 REFERENCE 2: 145:1919
 REFERENCE 3: 145:1750
 REFERENCE 4: 145:1575
 REFERENCE 5: 144:487147
 REFERENCE 6: 144:484776
 REFERENCE 7: 144:484443
 REFERENCE 8: 144:484408
 REFERENCE 9: 144:483276
 REFERENCE 10: 144:483256

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 ACT KHARE632B/A

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 L3 STR L1
 L4 50 S L3 CSS SAM SUB=L2
 L5 1913 S L3 CSS FUL SUB=L2
 SAV TEMP L5 KHARE632C/A

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L6 4074 S L5
 L7 48 S L6 AND HCV
 L8 79 S L6 AND HEPATITIS C VIRUS
 L9 95 S L6 AND HEPATITIS C
 E HEPATITIS C/CT
 E E3+ALL
 L10 6197 S E2,E3
 E E5+ALL
 E HEPATITIS C/CT
 L11 98 S E10-E27
 E E5+ALL
 L12 11424 S E8+OLD,NT
 E E7+ALL
 L13 9777 S E7+NT
 E HEPATITIS C/CT
 L14 88 S L6 AND L10-L13
 L15 95 S L7-L9,L14
 L16 98 S HCV POLYMERASE

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L17 1 S 9026-28-2

FILE 'HCAPLUS' ENTERED AT 08:26:26 ON 28 JUN 2006
L18 3617 S L17
L19 16 S L6 AND L16,L18
L20 7 S L6 AND RNA DEPENDENT RNA POLYMERASE
L21 0 S L6 AND NS5B POLYMERASE
L22 504 S L6 AND POLYMERASE
L23 18 S L22 AND L15
L24 101 S L15,L19,L23
L25 62 S L24 AND (PY<=2002 OR PRY<=2002 OR AY<=2002)
L26 53 S L5 (L) (THU OR PAC OR PKT OR DMA)/RL AND L25
L27 56 S L24 AND (PD<=20020801 OR PRD<=20020801 OR AD<=20020801)
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SEL AN 5 6 8
L30 3 S L29 AND E1-E6
L31 47 S L28 AND HEPATITIS
L32 2 S L24 AND (SCHINAZI ? OR STRIKER ? OR SHI J?) /AU
L33 3 S L24 AND PHARMASSET?/PA,CS
L34 4 S L32,L33
L35 3 S L34 NOT 140:157421/DN
L36 51 S L30,L31,L35 AND L6-L16,L18-L35
L37 50 S L36 NOT 140:157421/DN

FILE 'REGISTRY' ENTERED AT 08:37:29 ON 28 JUN 2006

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USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 28 Jun 2006 VOL 145 ISS 1
FILE LAST UPDATED: 27 Jun 2006 (20060627/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 137 bib abs hitstr retable tot

L37 ANSWER 1 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:238670 HCAPLUS
DN 142:303644
TI Compositions comprising phosphatidylethanolamine-binding peptides linked

IN to anti-viral agents
 PA Thorpe, Philip E.; Soares, M. Melina; He, Jin
 USA
 SO U.S. Pat. Appl. Publ., 182 pp., Cont.-in-part of U.S. Ser. No. 621,269.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 17

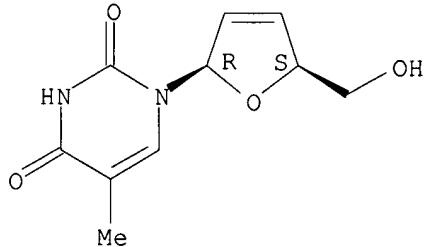
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PI	US 2005059578	A1	20050317	US 2003-642121	20030815 <--
	US 2004170620	A1	20040902	US 2003-621269	20030715 <-- X
PRAI	US 2002-396263P	P	20020715 <--		
	US 2003-621269	A2	20030715		

AB Disclosed are surprising discoveries concerning the role of anionic phospholipids and aminophospholipids in tumor vasculature and in viral entry and spread, and compns. and methods for utilizing these findings in the treatment of cancer and viral infections. Also disclosed are advantageous antibody, immunoconjugate and duramycin-based compns. and combinations that bind and inhibit anionic phospholipids and aminophospholipids, for use in the safe and effective treatment of cancer, viral infections and related diseases. The pharmaceutical compns. and treatment methods of the invention employ "therapeutically effective amts." of an anti-aminophospholipid or anti-anionic phospholipid antibody, optionally one that binds to substantially the same epitope as the monoclonal antibody 9D2 or 3G4, or an antigen binding fragment or immunoconjugate of such an antibody, or a substantially cell impermeant PE-binding peptide derivative, preferably a substantially cell impermeant duramycin derivative, or an anti-viral conjugate thereof.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine
 RL: BSU (Biological study, unclassified); THU (Therapeutic use);
 BIOL (Biological study); USES (Uses)
 (compns. comprising phosphatidylethanolamine-binding peptides linked to anti-viral agents)

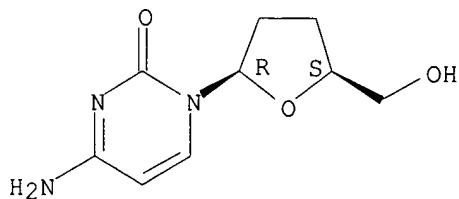
RN 3056-17-5 HCPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 2 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:177803 HCAPLUS
 DN 142:254560
 TI Antimetabolite antiviral dosing regimen for **hepatitis C virus** or flaviviridae therapy
 IN Stuyver, Lieven J.
 PA Pharmasset, Inc., USA
 SO PCT Int. Appl., 61 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005018330	A1	20050303	WO 2004-US26686	20040817
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRAI US 2003-496202P P 20030818

AB An anti-**hepatitis C** agent which is an anti-metabolite to the host and cannot be administered on a daily or chronic basis as is usual in anti-viral therapy (referred to below as an "anti-HCV anti-metabolite"), can be administered using a traditional anti-cancer dosing regimen (for example via i.v. or parenteral injection), over a period of 1-7 days followed by cessation of therapy until rebound of the viral load is noted. This dosing regimen runs counter to conventional antiviral experience, wherein effective agents are usually administered over at least fourteen days of sustained therapy, and typically on an indefinite daily basis.

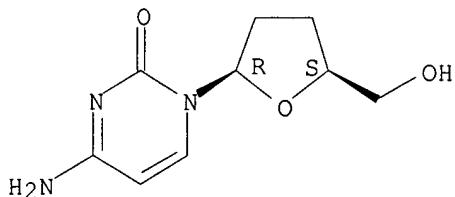
IT 7481-89-2, Zalcitabine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (antimetabolite antiviral dosing regimen for **hepatitis C virus** or flaviviridae therapy)

RN 7481-89-2 HCAPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 9026-28-2, RNA dependent RNA
polymerase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors, combination; antimetabolite antiviral dosing regimen for
hepatitis C virus or flaviviridae therapy)

RN 9026-28-2 HCAPLUS

CN Nucleotidyltransferase, ribonucleate, RNA-dependent (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Frustaci	2002	122	1348	Chest	
Sato	2002	97	215	AM J Gastroenterolo	

L37 ANSWER 3 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:98834 HCAPLUS

DN 142:196516

TI Anti-phosphatidylserine antibodies and antibody-antiviral agent conjugates
for treating cancer and viral infection

IN Thorpe, Philip E.; Soares, M. Melina; He, Jin

PA Board of Regents, the University of Texas System, USA

SO U.S. Pat. Appl. Publ., 180 pp., Cont.-in-part of U.S. Ser. No. 621,269.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 17

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2005025761	A1	20050203	US 2003-642100	20030815 <--
US 2004170620	A1	20040902	US 2003-621269	20030715 <--
PRAI US 2002-396263P	P	20020715	<--	
US 2003-621269	A2	20030715		

AB Disclosed are surprising discoveries concerning the role of anionic phospholipids and aminophospholipids in tumor vasculature and in viral entry and spread, and compns. and methods for utilizing these findings in the treatment of cancer and viral infections. Also disclosed are advantageous antibody, immunoconjugate and duramycin-based compns. and combinations that bind and inhibit anionic phospholipids and aminophospholipids, for use in the safe and effective treatment of cancer, viral infections and related diseases. E.g. anti-phosphatidylserine antibody 3G4 and scFv 3A2 and 9D2 and their humanized derivs. were prepared for treatment of cancer and viral infection.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

RL: BSU (Biological study, unclassified); THU (Therapeutic use);

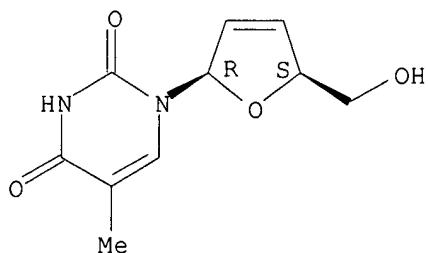
BIOL (Biological study); USES (Uses)

(anti-phosphatidylserine antibodies and antibody-antiviral agent conjugates for treating cancer and viral infection)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

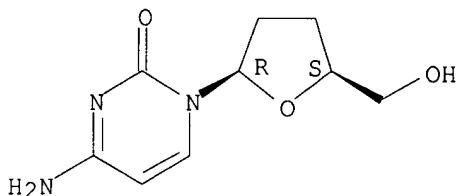
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 4 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2004:905361 HCPLUS

DN 141:388642

TI Methods for treating tumors and viral infections by using antibodies, immunoconjugates and duramycin-based compounds to inhibit anionic phospholipids and aminophospholipids

IN Thorpe, Philip E.; Soares, M. Melina; Ran, Sophia

PA USA

SO U.S. Pat. Appl. Publ., 181 pp., Cont.-in-part of U.S. Ser. No. 621,269.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 17

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004213779	A1	20041028	US 2003-642119	20030815 <--
	US 2004170620	A1	20040902	US 2003-621269	20030715 <--X
PRAI	US 2002-396263P	P	20020715 <--		
	US 2003-621269	A2	20030715		

AB Disclosed are surprising discoveries concerning the role of anionic phospholipids and aminophospholipids in tumor vasculature and in viral entry and spread, and compns. and methods for utilizing these findings in the treatment of cancer and viral infections. Also disclosed are advantageous antibody, immunoconjugate and duramycin-based compns. and combinations that bind and inhibit anionic phospholipids and aminophospholipids, for use in the safe and effective treatment of cancer, viral infections and related diseases.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

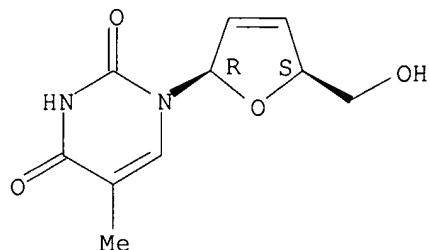
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(treating tumors and viral infections by using antibodies,

immunoconjugates and duramycin-based compds. to inhibit anionic phospholipids and aminophospholipids)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

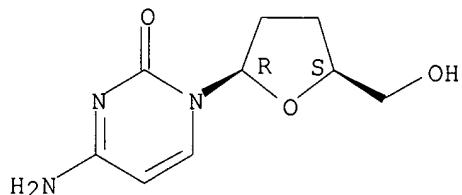
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCAPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 5 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:490275 HCAPLUS

DN 141:59691

TI Systemic delivery of antiviral agents

IN Ashton, Paul; Chen, Jianbing; Smith, Thomas J.

PA Control Delivery Systems, Inc., USA

SO U.S. Pat. Appl. Publ., 37 pp., Cont.-in-part of U.S. Ser. No. 96,877.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 14

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004115268	A1	20040617	US 2003-713336	20031113 <--
	US 6375972	B1	20020423	US 2000-558207	20000426 <--
	US 2002102307	A1	20020801	US 2002-96877	20020314 <--
	US 2005186279	A1	20050825	US 2005-81142	20050315 <--
PRAI	US 2000-558207	A1	20000426	<--	
	US 2002-96877	A2	20020314	<--	
	US 2002-425943P	P	20021113	<--	

AB The systems and methods disclosed herein provide sustained delivery of a therapeutic agent for treating a patient, e.g., human, to obtain a desired local or systemic physiol. or pharmacol. effect. Method includes positioning the sustained released drug delivery system at an area wherein release of the agent is desired and allowing the agent to pass through the device to the desired area of treatment. In some embodiments, the method is for treating or reducing the risk of retroviral or lentiviral

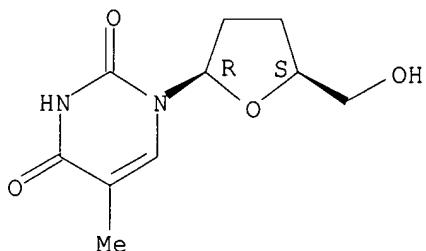
infection. In certain embodiments, the method is for preventing or reducing the risk of mother-to-child transmission of HIV, wherein the therapeutic agent is an antiviral agent.

IT 3416-05-5, 2',3'-Dideoxythymidine 7481-89-2, Zalcitabine
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (systemic delivery of antiviral agents)

RN 3416-05-5 HCAPLUS

CN Thymidine, 3'-deoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

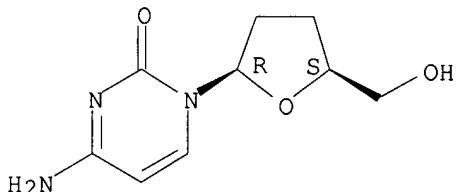
Absolute stereochemistry. Rotation (+).



RN 7481-89-2 HCAPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 6 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:60253 HCAPLUS

DN 140:127195

TI Antibodies specifically bind to anionic phospholipids and/or aminophospholipids conjugated with duramycin peptide for treating viral infections and cancer

IN Thorpe, Philip E.; Soares, Melina M.; Huang, Xianming; He, Jin; Ran, Sophia

PA Board of Regents the University of Texas System, USA

SO PCT Int. Appl., 378 pp.

CODEN: PIXXD2

DT Patent

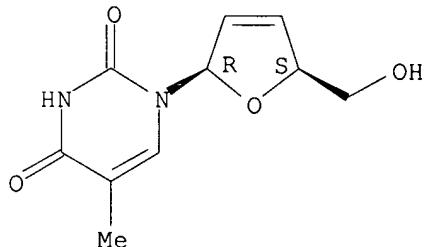
LA English

FAN.CNT 17

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
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	WO 2004006847	A3	20050407			
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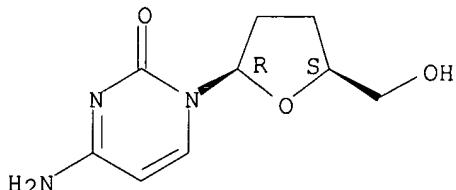
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 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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 AU 2003247869 A1 20040202 AU 2003-247869 20030715 <--
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 EP 1537146 A2 20050608 EP 2003-764600 20030715 <--
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 JP 2005537267 T2 20051208 JP 2004-521771 20030715 <--
 PRAI US 2002-396263P P 20020715 <--
 WO 2003-US21925 W 20030715
 AB Disclosed are surprising discoveries concerning the role of anionic phospholipids and aminophospholipids in tumor vasculature and in viral entry and spread, and compns. and methods for utilizing these findings in the treatment of cancer and viral infections. Also disclosed are advantageous antibody, immunoconjugate and duramycin-based compns. and combinations that bind and inhibit anionic phospholipids and aminophospholipids, for use in the safe and effective treatment of cancer, viral infections and related diseases.
 IT 3056-17-5D, Stavudine, conjugates 7481-89-2D,
 Zalcitabine, conjugates
 RL: BSU (Biological study, unclassified); THU (Therapeutic use);
 BIOL (Biological study); USES (Uses)
 (antibodies specifically bind to anionic phospholipids and/or aminophospholipids conjugated with duramycin peptide for treating viral infections and cancer)
 RN 3056-17-5 HCPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

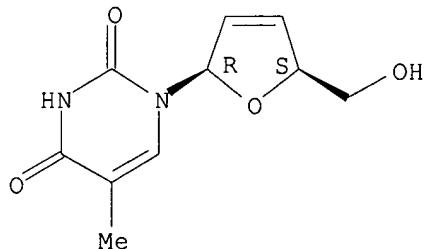
Absolute stereochemistry. Rotation (+).



L37 ANSWER 7 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:41226 HCAPLUS
 DN 140:105321
 TI Methods and compositions relating to isoleucine boroproline compounds
 IN Adams, Sharlene; Miller, Glenn T.; Jesson, Michael I.; Jones, Barry
 PA Point Therapeutics, Inc., USA
 SO PCT Int. Appl., 152 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

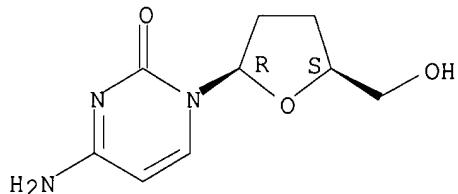
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004004658	A2	20040115	WO 2003-US21405	20030709 <--
	WO 2004004658	A3	20050804		
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	CA 2491466	AA	20040115	CA 2003-2491466	20030709 <--
	AU 2003265264	A1	20040123	AU 2003-265264	20030709 <--
	US 2004077601	A1	20040422	US 2003-616694	20030709 <--
	US 2005084490	A1	20050421	US 2003-616409	20030709 <--
	EP 1578434	A2	20050928	EP 2003-763380	20030709 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2006507352	T2	20060302	JP 2004-562634	20030709 <--
PRAI	US 2002-394856P	P	20020709	<--	
	US 2002-414978P	P	20021001	<--	
	US 2003-466435P	P	20030428		
	WO 2003-US21405	W	20030709		
OS	MARPAT 140:105321				
AB	A method for treating subjects with, inter alia, abnormal cell proliferation or infectious disease using agents of formula (I, AmNHCH(CH(CH ₃)CH ₂ CH ₃)COA1R) (where Am and A1 are amino acids and R = organo boronates, organo phosphonates, fluoroalkyl ketones, alphaketos, N-peptioly-O-(acylhydroxylamines), azapeptides, azetidines, fluoroolefins dipeptide isosteres, peptidyl (α -aminoalkyl) phosphonate esters, aminoacyl pyrrolidine-2-nitriles and 4-cyanothiazolidides) is claimed. Methods for stimulating an immune response using the compds. of the invention are also claimed. Compns. containing Ile-boroPro compds. are also provided as are kits containing the compns. The invention embraces the use of these compds. alone or in combination with other therapeutic agents.				
IT	3056-17-5, Stavudine 7481-89-2, Zalcitabine RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (therapeutic methods and compns. relating to isoleucine boroproline compds. alone or in combination with other drugs, antibodies, or antigens)				
RN	3056-17-5 HCAPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

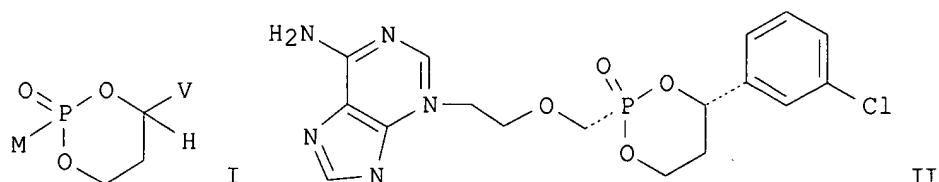
Absolute stereochemistry. Rotation (+).



L37 ANSWER 8 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:971770 HCPLUS
 DN 140:27709
 TI Preparation of phosphonic acid based prodrugs of phosphonylmethoxyethyladenine and its analogues for their therapeutic use as antiviral and anticancer agents
 IN Reddy, K. Raja; Erion, Mark D.; Matelich, Michael C.; Kopcho, Joseph J.
 PA USA
 SO U.S. Pat. Appl. Publ., 44 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003229225 CA 2485702 WO 2004037161 WO 2004037161	A1 AA A2 A3	20031211 20040506 20040506 20050331	US 2003-436922 CA 2003-2485702 WO 2003-US14821	20030512 <-- 20030512 <-- 20030512 <--
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AU	2003299492	A1	20040513	AU 2003-299492	20030512 <--
EP	1532157	A2	20050525	EP 2003-799779	20030512 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2006511490 T2 20060406 JP 2004-546667 20030512 <--
 PRAI US 2002-380545P P 20020513 <--
 WO 2003-US14821 W 20030512
 OS MARPAT 140:27709
 GI



AB The present invention discloses a method of preparing phosphonate cyclic esters, such as I [M and V are cis to one another; MPO3H2 is a phosphonic acid selected from the group consisting of 9-(2-phosphonylmethoxyethyl)adenine, (R)-9-(2-phosphonylmethoxypropyl)adenine, 9-(2-phosphonylmethoxyethyl)guanine, 9-(2-phosphonylmethoxyethoxy)adenine, 9-(2-phosphonylmethoxyethyl)-2,6-diaminopurine, (S)-1-(3-hydroxy-2-phosphonylmethoxypropyl)cytosine, (S)-9-(3-hydroxy-2-phosphonylmethoxypropyl)adenine, 9-(3-hydroxy-2-phosphonylmethoxypropyl)guanine, and (S)-9-(3-fluoro-2-phosphonylmethoxypropyl)adenine; V = Ph, 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-furanyl, 3-furanyl, 2-thienyl, 3-thienyl, optionally substituted with 1-3 substituents selected from a group consisting of F, Cl, Br, alkyl, CF3, OR6; R6 = alkyl, CF3], and pharmaceutically acceptable salts thereof for their therapeutic use as antiviral and anticancer agents. The process involves coupling of a chiral 1-phenylpropane-1,3-diol [Ph may be optionally substituted], with MPOCl2 or an N-6 substituted analog thereof. Addnl., methods and salt forms that enable isolation and purification of the desired isomer are also described. Thus, phosphonate cyclic ester derivative II.MeSO3H was prepared via a multistep reaction sequence starting from 3-chlorobenzoyl chloride, trimethylsilyl acetate, 9-(2-Phosphonylmethoxyethyl)adenine (PMEA), N,N-diethylformamide, oxalyl chloride and methanesulfonic acid. Other examples include activation of phosphoramidate prodrugs by human microsomes and the identification and tissue distribution of the microsomal enzymes involved in activation.

IT 181785-84-2, ACH 126443

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

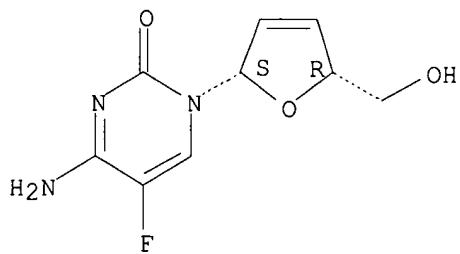
(together with phosphonate cyclic esters of

phosphonylmethoxyethyladenine for their therapeutic use as antiviral agents)

RN 181785-84-2 HCAPLUS

CN 2 (1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-2,5-dihydro-5-(hydroxymethyl)-2-furanyl]-5-fluoro- (9CI) (CA INDEX NAME)

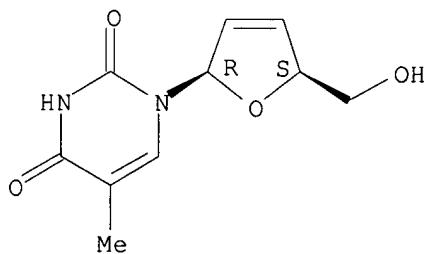
Absolute stereochemistry. Rotation (-).



L37 ANSWER 9 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:590943 HCAPLUS
 DN 139:154893
 TI Phthalocyanine and porphyrazine pharmaceutical compositions
 IN Compans, Richard W.; Marzilli, Luigi G.; Dixon, Dabney W.
 PA Emory University, USA; Georgia State University Research Foundation, Inc.
 SO PCT Int. Appl., 59 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

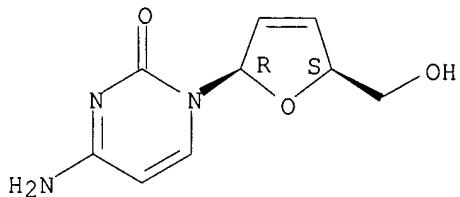
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003061579	A2	20030731	WO 2003-US1619	20030117 <-- ✓
	WO 2003061579	A3	20031204		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2002-349944P	P	20020118 <--		
OS	MARPAT	139:154893			
AB	Pharmaceutical compns. containing a neutral or neg. charged compound having a phthalocyanine structure or one of the porphyrazines or the metal-complex formed thereof are effective in decreasing infection by HIV and other pathogens leading to sexually transmitted diseases. The compns. can be made suitable for any mode of administration. Preferably, the composition is suitable for topical administration, especially for mucosal administration.				
The	most preferred composition is suitable for vaginal or rectal administration.				
IT	3056-17-5, D4T 7481-88-1, D 4C 7481-89-2, DDC				
RL:	THU (Therapeutic use); BIOL (Biological study); USES (Uses) (co-administration with; mucosal and topical compns. containing phthalocyanines and porphyrazines for treatment of sexually transmitted diseases)				
RN	3056-17-5 HCAPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



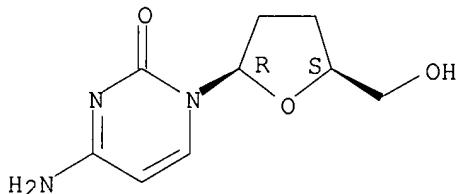
RN 7481-88-1 HCAPLUS
 CN Cytidine, 2',3'-didehydro-2',3'-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 7481-89-2 HCAPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

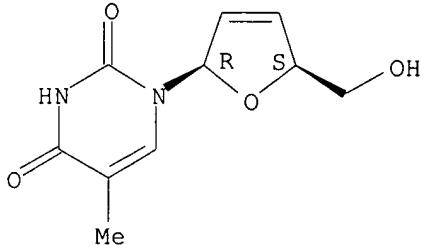


L37 ANSWER 10 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:551347 HCAPLUS
 DN 139:111611
 TI Porphyrins with virucidal activity, and use in the treatment of sexually transmitted diseases
 IN Compans, Richard W.; Marzilli, Luigi G.; Sears, Amy E.; Dixon, Dabney W.
 PA Emory University, USA; Georgia State University Research Foundation, Inc.
 SO PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003057176	A2	20030717	WO 2003-US532	20030108 <-->
	WO 2003057176	A3	20040916		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,			

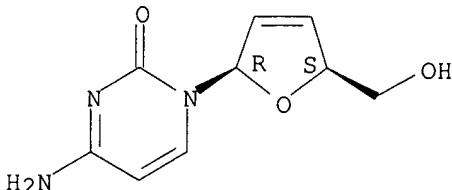
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 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
 KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2472583 AA 20030717 CA 2003-2472583 20030108 <--
 AU 2003212790 A1 20030724 AU 2003-212790 20030108 <--
 EP 1480638 A2 20041201 EP 2003-708820 20030108 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 US 2005090428 A1 20050428 US 2003-500884 20030108 <--
 PRAI US 2002-347197P P 20020108 <--
 WO 2003-US532 W 20030108
 OS MARPAT 139:111611
 AB Compns. and methods are provided for the prevention of sexually transmitted diseases resulting from infection with one or more viral pathogens. The compns. contain one or more porphyrins, tetrapyrrole macrocycle compds. with bridges of one carbon joining the pyrroles. In a preferred embodiment, the compns. are administered in a formulation suitable for administration to a mucosal surface.
 IT 3056-17-5, D4T 7481-88-1, D 4C 7481-89-2, DDC
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (porphyrins with virucidal activity, and use in the treatment of sexually transmitted diseases, and use with other agents)
 RN 3056-17-5 HCPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



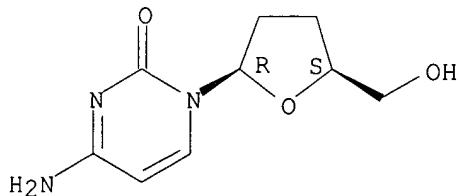
RN 7481-88-1 HCPLUS
 CN Cytidine, 2',3'-didehydro-2',3'-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 11 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:413956 HCAPLUS
 DN 138:396187
 TI Combination therapy involving drugs which target cellular proteins and drugs which target pathogen-encoded proteins for inhibiting replication of pathogens
 IN Schaffer, Priscilla A.; Schang, Luis M.
 PA USA
 SO U.S. Pat. Appl. Publ., 76 pp., Cont.-in-part of U.S. Ser. No. 951,058.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003099944	A1	20030529	US 2000-905687	20001206 <--
	WO 2000006170	A1	20000210	WO 1999-US16252	19990716 <--
	W: AU, CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	US 1998-94805P	P	19980731	<--	
	US 1999-131264P	P	19990427	<--	
	US 1999-140926P	P	19990624	<--	
	WO 1999-US16252	A1	19990716	<--	
	US 2000-656592	A2	20000907	<--	
	US 2000-951058	A2	20000912	<--	
AB	The invention relates to the identification of cdk inhibitors as inhibitors of pathogen gene expression, replication and reactivation. The invention also relates to the identification of a combination therapy to inhibit pathogen replication in which a drug that inhibits pathogen replication by targeting a specific pathogen-encoded protein is administered in combination with a drug that inhibits pathogen replication by targeting host-encoded cdk proteins. Compns. and assays for the identification and use of such inhibitors are provided as are methods of use of the inhibitors. Vero cells (mammalian cell line) were infected with 3 PFUs of either a wild-type or an antiviral drug-resistant strain of HSV-1. One hour after infection, cultures were washed with PBS and then refed with medium containing acyclovir (ACV) and with cellular cyclin-dependent kinase inhibitors Roscovitine (Rosco) or Purvalanol (Purv). The effects of either Rosco or Purv on inhibiting viral replication, when used in combination with ACV, were greater than when either Rosco or Purv were used alone. Importantly, the increased effects of Rosco and Purv were observed during treatment of ACV-susceptible wild-type HSV-1 (KOS) and during treatment of an ACV-resistant strain (TK-) of HSV-1.				
IT	3056-17-5, Stavudine RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study);				

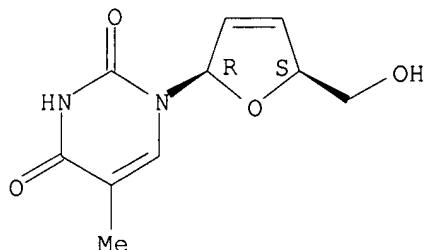
USES (Uses)

(pathogen DNA replication inhibitor; combination therapy involving drugs which target cellular proteins and drugs which target pathogen-encoded proteins for inhibiting replication of pathogens)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L37 ANSWER 12 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2003:222146 HCPLUS

DN 138:253701

TI Fusion proteins comprising transduction and cytotoxic domains for treating pathogenic infection

IN Dowdy, Steven F.

PA Washington University, USA

SO U.S. Pat. Appl. Publ., 49 pp., Cont.-in-part of U.S. Provisional Ser. No. 82,402.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003054000	A1	20030320	US 2001-775052	20010201 <--
	US 6645501	B2	20031111		
	US 6221355	B1	20010424	US 1998-208966	19981210 <--
PRAI	US 1997-69012P	P	19971210	<--	
	US 1998-82402P	P	19980420	<--	

AB The present invention provides an anti-pathogen system comprising one or more fusion proteins that includes a transduction domain and a cytotoxic domain. The cytotoxic domain is specifically activated by a pathogen infection. The anti-pathogen system effectively kills or injures cells infected by one or a combination of different pathogens. Further provided are protein transduction domains that provide enhanced transduction efficiency. The pathogen includes cytomegalovirus, herpes simplex virus, hepatitis C virus, yellow fever virus, flavivirus, rhinovirus, HIV-1, HIV-2, HTLV-III, LAV, Plasmodium falciparum, Plasmodium vivax, Plasmodium ovale, Plasmodium malariae, etc.

IT 3056-17-5, d4T 7481-89-2, DdC

RL: BSU (Biological study, unclassified); THU (Therapeutic use);

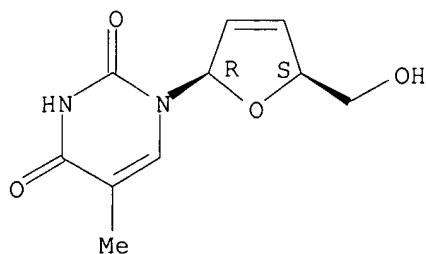
BIOL (Biological study); USES (Uses)

(fusion proteins comprising transduction and cytotoxic domains for treating viral, retroviral and plasmoidal infections)

RN 3056-17-5 HCPLUS

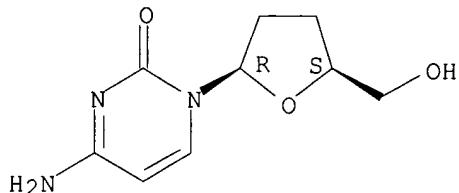
CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



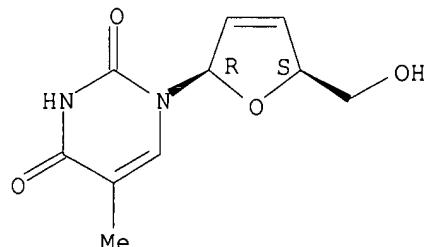
L37 ANSWER 13 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:128527 HCPLUS
 DN 138:395512
 TI Efficacy of induction therapy with high-dose interferon for patients with hemophilia and human immunodeficiency virus-**hepatitis C virus** coinfection
 AU Hanabusa, Hideji
 CS Department of Hematology, Ogikubo Hospital, Tokyo, Japan
 SO Clinical Infectious Diseases (2002), 35(12), 1527-1533
 CODEN: CIDIEL; ISSN: 1058-4838
 PB University of Chicago Press
 DT Journal
 LA English
 AB To evaluate the efficacy of high-dose interferon (IFN) on human immunodeficiency virus (HIV) and **hepatitis C virus** (HCV) infection, 15 HIV-pos. patients and 15 age-matched HIV-neg. patients with hemophilia were treated with 9 million units (MU) of IFN- α 2a daily for 2 wk, followed by 9 MU of IFN- α 2a 3 times/wk for a further 22 wk. At week 2, HIV RNA levels decreased from 7410 ± 2190 to 320 ± 130 copies/mL, and HCV RNA levels decreased from $390 \pm 103 \pm 80 \pm 103$ to $70 \pm 103 \pm 30 \pm 103$ copies/mL in the HIV-pos. group and from $300 \pm 103 \pm 80 \pm 103$ to $10 \pm 103 \pm 10 \pm 103$ copies/mL in the HIV-neg. group. HCV RNA was undetectable after treatment in 4 of 12 HIV-pos. and 6 of 15 HIV-neg. patients. IFN therapy was discontinued because of adverse effects in 3 HIV-pos. patients. Induction therapy and the dose of IFN should be evaluated in combination therapy with IFN and ribavirin.
 IT 3056-17-5, Stavudine
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (efficacy of induction therapy with high-dose interferon- α 2a for patients with hemophilia and HIV-**hepatitis C**)

virus coinfection)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Bain, V	2001	96	12818	Am J Gastroenterol	HCPPLUS
Cacciola, I	1999	341	122	N Engl J Med	MEDLINE
Cramp, M	2000	118	1346	Gastroenterology	HCPPLUS
Daar, E	2001	183	1589	J Infect Dis	MEDLINE
Darby, S	1997	350	1425	Lancet	MEDLINE
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Eyster, M	1999	179	1062	J Infect Dis	MEDLINE
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Fukai, K	1998	178	1325	J Infect Dis	HCPPLUS
Glue, P	2000	32	647	Hepatology	HCPPLUS
Hanabusa, H	1995		133	Abstract 19, Program	
Harrington, M	2000	355	2147	Lancet	MEDLINE
Ho, D	1995	333	1450	N Engl J Med	MEDLINE
Hoggard, P	1997	41	1231	Antimicrob Agents Ch	HCPPLUS
Kuboki, M	2000	32	277A	Hepatology	
Lafeuillade, A	2001	357	1280	Lancet	HCPPLUS
Lam, N	1997	26	1226	Hepatology	HCPPLUS
Landau, A	2000	14	839	AIDS	HCPPLUS
Manns, M	2001	358	1958	Lancet	HCPPLUS
Martinot-Peignoux, M	1995	22	1050	Hepatology	MEDLINE
McHutchison, J	1998	339	1485	N Engl J Med	HCPPLUS
Niro, G	1997	25	728	Hepatology	HCPPLUS
Okamoto, H	1997	78	1737	J Gen Virol	HCPPLUS
Palella, F	1998	338	853	N Engl J Med	
Poynard, T	1996	24	1778	Hepatology	HCPPLUS
Sabin, C	1997	175	164	J Infect Dis	MEDLINE
Sanchez-Quijano, A	1995	14	1949	Eur J Clin Microbiol	MEDLINE
Seeff, L	1999	107	S10	Am J Med	
Shindo, M	2001	33	1299	Hepatology	HCPPLUS
Takayama, S	1999	104	1626	Br J Haematol	MEDLINE

L37 ANSWER 14 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:53537 HCAPLUS

DN 138:105636

TI Stimulation of immune response with low doses of cytokines

IN Smith, Kendall A.

PA Cornell Research Foundation, Inc., USA

SO U.S., 21 pp., Cont.-in-part of U.S. 6,045,788.

CODEN: USXXAM

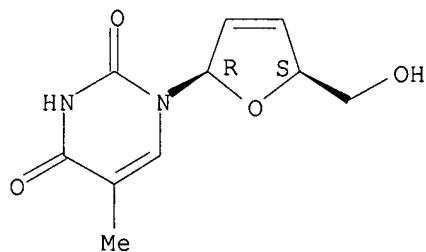
DT Patent

LA English

FAN.CNT 3

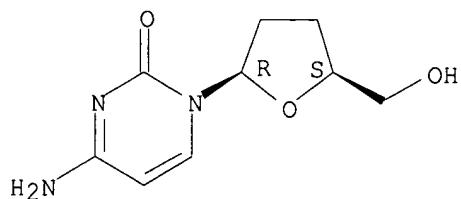
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6509313	B1	20030121	US 1996-646098	19960507 <--
	US 6045788	A	20000404	US 1996-608516	19960228 <--
	WO 9741831	A1	19971113	WO 1997-US7787	19970507 <--
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9730613	A1	19971126	AU 1997-30613	19970507 <--
	EP 901370	A1	19990317	EP 1997-925488	19970507 <--
	R: DE, FR, GB, IT, NL, SE				
	JP 2000510122	T2	20000808	JP 1997-540196	19970507 <--
PRAI	US 1996-608516	A2	19960228	<--	
	US 1996-646098	A	19960507	<--	
	WO 1997-US7787	W	19970507	<--	
AB	A method of activating the immune system of a subject comprises the chronic administration of low doses of an agent having cytokine activity, including natural and recombinant cytokines, fragments, analogs, fusion proteins, and derivs. thereof, that are pharmaceutically acceptable, and their mixts. with other biol. active agents and formulation ingredients. The agent is provided as a unit dosage form, in systemic and topical product form, as an implant, inhalant, transdermal delivery device, and ultrasound and electrotransport devices, as well as in the form of a kit for self-administration. The examples given include chronic administration of interleukin-2, interferon γ , joint antiviral/interferon γ therapy, derivatized and mutated interferon γ , interleukin-15, CD40 ligand, natural interferon α 2, and interferon β .				
IT	3056-17-5, d4T 7481-89-2, DDC				
	RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(immune response stimulation with low doses of cytokines)				
RN	3056-17-5 HCPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
Anon	1984			EP 0118977	HCAPLUS
Anon	1988			EP 0254593	HCAPLUS
Anon	1988			WO 8803411	HCAPLUS
Anon	1990			EP 0353910	HCAPLUS
Anon	1990			EP 0378171	HCAPLUS
Anon	1990			WO 9014432	HCAPLUS
Anon	1991			EP 0405315	HCAPLUS
Anon	1991			WO 9101143	HCAPLUS
Anon	1992			WO 9205256	HCAPLUS
Anon	1992			WO 9208792	HCAPLUS
Anon	1992			WO 9213568	HCAPLUS
Anon	1993			EP 0533416	HCAPLUS
Anon	1995			EP 0640336	HCAPLUS
Anon	1995			WO 9527722	HCAPLUS
Anon	1996			WO 9604013	HCAPLUS
Anon	1996			WO 9630515	HCAPLUS
Anon	1996			WO 9636350	HCAPLUS
Bernstein, Z	1995	86	3287	Blood	HCAPLUS
Gough	1993			US 5208018 A	HCAPLUS
Grabstein	1995			US 5474769 A	HCAPLUS
Grimm	1993			US 5229109 A	HCAPLUS
Hedy, T	1993	167	291	The Journal of Infect	
Hershenson	1991			US 5004605 A	HCAPLUS
Howard	1990			US 4938956 A	HCAPLUS
Ihle, J	1996	84	331	Cell	HCAPLUS
Michael, A	1991	9	2110	Journal of Clinical	
Moriggl, R	1999	10	249	Immunity	HCAPLUS
Morikawa, K	1987	47	37	Cancer Research	HCAPLUS
Sibalis	1990			US 4940456 A	
Smith	2000			US 6045788 A	HCAPLUS
Smith, K	1995	766		Receptor Activation	HCAPLUS
Stewart	1993			US 5236707 A	HCAPLUS
Suto	1995			US 5420109 A	HCAPLUS
Tamblyn	1990			US 4933433 A	HCAPLUS
Ulich	1994			US 5376368 A	HCAPLUS
Von Eichborn	1992			US 5145677 A	HCAPLUS
Watowich, S	1996	12	91	Annu Rev Cell Dev Bi	HCAPLUS
Wiltrot	1992			US 5126129 A	HCAPLUS
Yang	1995	76	687	Cancer	MEDLINE
Yarchoan	1991			US 5026687 A	HCAPLUS

L37 ANSWER 15 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:947003 HCAPLUS

DN 138:29124

TI Time release reverse transcriptase inhibitors

IN Halstead, Bruce

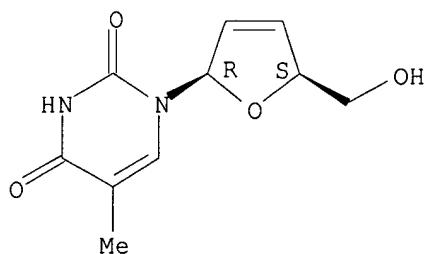
PA USA
 SO U.S. Pat. Appl. Publ., 3 pp.
 CODEN: USXXCO

DT Patent
 LA English

FAN.CNT 6

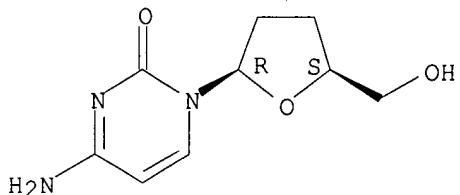
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002187957	A1	20021212	US 2002-159417	20020529 <--
	WO 2003101389	A2	20031211	WO 2003-US17131	20030529 <--
	WO 2003101389	A3	20040513		
	WO 2003101389	B1	20040624		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003238842	A1	20031219	AU 2003-238842	20030529 <--
	US 2005129780	A1	20050616	US 2003-515773	20030529 <--
	EP 1551419	A2	20050713	EP 2003-734301	20030529 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	US 2001-294477P	P	20010530	<--	
	US 2002-159417	A	20020529	<--	
	US 2002-159433	A	20020529	<--	
	US 2002-159434	A	20020529	<--	
	US 2002-159723	A	20020529	<--	
	US 2002-159747	A	20020529	<--	
	US 2002-395227P	P	20020710	<--	
	WO 2003-US17131	W	20030529		
AB	A pharmaceutical composition comprises a reverse transcriptase inhibitor in a quantity sufficient to reduce a viral serum titer of a virus in an amount of at least 20% over a period of at least 6 h, wherein the preferred reverse transcriptase inhibitor comprises a plant extract. The compns. further comprise a chelating agent, the chelating agent being present in a single dose in a concentration such that the serum Mg ²⁺ and/or Ca ²⁺ concentration is reduced at least 20% over a period of at least 6 h.,				
IT	3056-17-5, Stavudine 7481-89-2, Zalcitabine RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (time release reverse transcriptase inhibitors)				
RN	3056-17-5 HCPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 16 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:927626 HCPLUS
 DN 138:20431
 TI Use of mitochondrial DNA-specific quantitative real-time PCR for diagnosis and monitoring drug toxicity in humans suffering with various disorders such as viral infections, neurological disorders, cancer, arthritis, male sterility or organ failure
 IN Cote, Helene; Montaner, Julio; O'Shaughnessy, Michael V.
 PA The University of British Columbia, Can.
 SO PCT Int. Appl., 37 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002097124	A1	20021205	WO 2002-CA796	20020529 <--
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA	2416332	AA	20021205	CA 2002-2416332	20020529 <--
US	2003099933	A1	20030529	US 2002-158543	20020529 <--
EP	1395681	A1	20040310	EP 2002-729732	20020529 <--
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP	2004532043	T2	20041021	JP 2003-500289	20020529 <--

PRAI US 2001-293523P P 20010529 <--
 WO 2002-CA796 W 20020529 <--

AB The invention discloses the use of quant. real-time **polymerase** chain reaction (PCR) to monitor drug toxicity, which involves measuring the relative amount of mitochondrial DNA in peripheral blood cells obtained from individuals suffering with various disorders. The invention relates that the quant. real-time PCR involves co-amplification of a mitochondrial sequence and a reference sequence, such as a genomic sequence. The invention also discloses that said disorders include HIV infection, cancer, **hepatitis A, hepatitis B, hepatitis C**, arthritis, Alzheimer's disease, Parkinson's disease, or Huntington's disease. The invention also relates that said drugs used to treat patients include nucleoside or nucleotide analogs, and/or reverse transcriptase inhibitors. The invention further discloses that the said method can be used to diagnose conditions such as male infertility and organ failure. The method was illustrated by detecting the amount of mitochondrial gene CCOI and the nuclear gene ASPOLY in HIV infected individuals undergoing antiviral therapy.

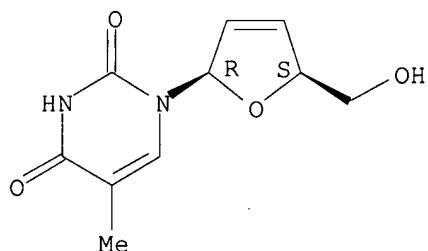
IT 3056-17-5, Stavudine 7481-89-2, Hivid

RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (mitochondrial DNA-specific quant. real-time PCR for monitoring drug toxicity in individuals suffering for various disorders such as viral infections, neurol. disorders, cancer, and arthritis)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-dideoxy- (9CI) (CA INDEX NAME)

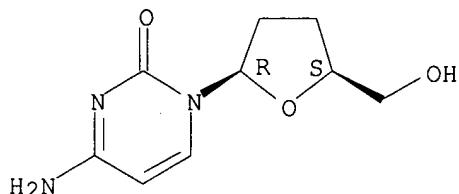
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year VOL PG Referenced Work (R PY) (R VL) (R PG) Referenced (RWK) Referenced File
Arnaudo, E	1991 337 508 LANCET MEDLINE
Berlin, K	1998 245 137 EXPERIMENTAL CELL RE HCPLUS

Brinkman, K	1999	354	1112	LANCET	HCAPLUS
Church, J	2001	138	748	JOURNAL OF PEDIATRIC	MEDLINE
Kakuda, T	2000	22	685	CLINICAL THERAPEUTIC	HCAPLUS
Kao, S	1998	4	657	MOLECULAR HUMAN REPR	HCAPLUS
Lewis, W	1997	76	77	LABORATORY INVESTIGA	HCAPLUS
Medina, D	1994	38	1824	ANTIMICROBIAL AGENTS	HCAPLUS
Mitokor	2001			WO 0135096 A	HCAPLUS
The Regents Of The Univ	2000			WO 0050043 A	HCAPLUS

L37 ANSWER 17 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:832613 HCAPLUS

DN 137:333119

TI 3-Aminopyridine-2-carboxyaldehyde thiosemicarbazones and methods using them for treating viral and fungal infections

IN King, Ivan C.; Doyle, Terrence W.; Sznol, Mario; Sartorelli, Alan C.; Cheng, Yung-Chi

PA Vion Pharmaceuticals, Inc., USA; Yale University

SO PCT Int. Appl., 68 pp.

CODEN: PIXXD2

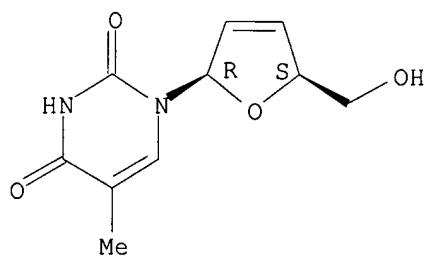
DT Patent

LA English

FAN.CNT 1

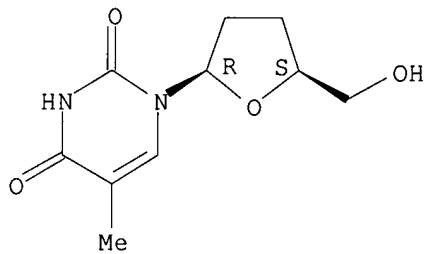
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002085358	A2	20021031	WO 2002-US12358	20020418 <--
	WO 2002085358	A3	20021219		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002188011	A1	20021212	US 2002-126050	20020418 <--
	US 6911460	B2	20050628		
	CN 1503669	A	20040609	CN 2002-808591	20020418 <--
	US 2005261251	A1	20051124	US 2005-93648	20050330 <--
PRAI	US 2001-285559P	P	20010420	<--	
	US 2002-126050	A3	20020418	<--	
OS	MARPAT 137:333119				
AB	The invention provides methods for treating viral or fungal infections using 3-aminopyridine-2-carboxyaldehyde thiosemicarbazone (3-AP) and 3-amino-4-methylpyridine-2-carboxaldehyde thiosemicarbazone (3-AMP), and prodrug forms thereof, as well as pharmaceutical compns. comprising these compds. Preparation of compds. of the invention is described.				
IT	3056-17-5 3416-05-5, 2',3'-Dideoxythymidine 7481-88-1 7481-89-2, 2',3'-Dideoxycytidine 135212-57-6 147058-39-7 181785-84-2				
	RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aminopyridinecarboxyaldehyde thiosemicarbazones for treatment of viral and fungal infections)				
RN	3056-17-5 HCAPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



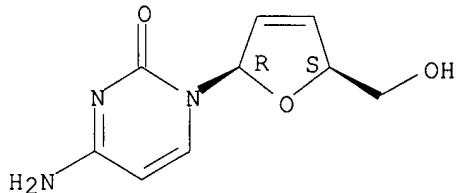
RN 3416-05-5 HCAPLUS
 CN Thymidine, 3'-deoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



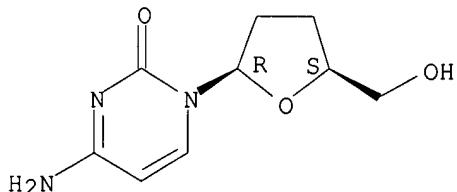
RN 7481-88-1 HCAPLUS
 CN Cytidine, 2',3'-didehydro-2',3'-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



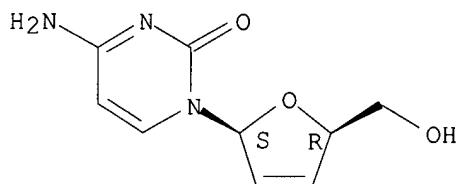
RN 7481-89-2 HCAPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 135212-57-6 HCAPLUS
 CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-2,5-dihydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

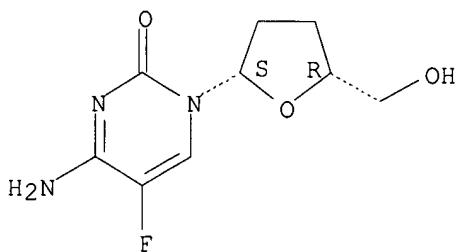
Absolute stereochemistry.



RN 147058-39-7 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

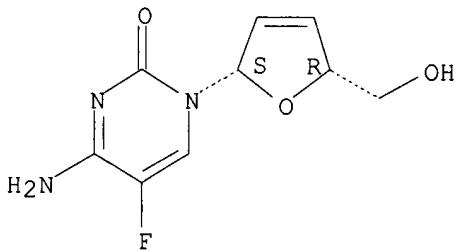
Absolute stereochemistry. Rotation (-).



RN 181785-84-2 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-2,5-dihydro-5-(hydroxymethyl)-2-furanyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L37 ANSWER 18 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2002:570135 HCPLUS

DN 137:134544

TI Incidence of and risk factors for severe hepatotoxicity associated with antiretroviral combination therapy

AU Wit, Ferdinand W. N. M.; Weverling, Gerrit Jan; Weel, Jan; Jurriaans, Suzanne; Lange, Joep M. A.

CS National AIDS Therapy Evaluation Center, Departments of Human Retrovirology, Division of Infectious Diseases, Tropical Medicine, and AIDS, Department of Internal Medicine, Academic Medical Center, University of Amsterdam, Amsterdam, Neth.

SO Journal of Infectious Diseases (2002), 186(1), 23-31
CODEN: JIDIAQ; ISSN: 0022-1899

PB University of Chicago Press

DT Journal

LA English

AB This retrospective cohort study investigated whether particular antiretroviral agents are associated with a higher risk for developing grade 4 liver enzyme elevations (LEEs) in patients with human immunodeficiency virus (HIV) type 1 infection who are starting to receive highly active antiretroviral therapy (HAART). Grade 4 LEE was defined as aminotransferase levels >10 times the upper limit of normal and >200 U above baseline levels. A multivariate Cox model was used to identify risk factors. The incidence of LEE was 6.3%. No patients died of LEE consequences. Risk factors were higher baseline alanine aminotransferase levels, chronic hepatitis B or C virus infection, antiretroviral therapy-naive patients undergoing their first HAART regimen, recent start of a regimen of nevirapine or high-dose ritonavir, and female sex. In hepatitis B virus (HBV)-coinfected patients, discontinuing lamivudine (3TC) use was a risk factor. In 97% of cases, ≥ 1 risk factor was present. In HBV coinfecting patients using 3TC, continued use of 3TC should be considered, even if 3TC-resistant HIV strains develop.

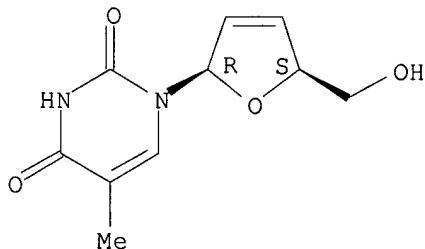
IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(incidence of and risk factors for severe hepatotoxicity associated with antiretroviral combination therapy)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

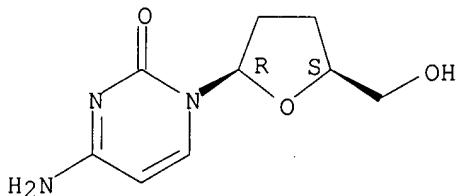
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year	VOL	PG (R PY)	Referenced Work (R VL)	Referenced (R PG)	File (R WK)
Anon	2000	9	116	Prescrire Int		
de Requena, G	2002	16	290	AIDS		
Dieterich, D	2001			[Abstract 44], Progr		

Martinez, E |2001 |15 |1261 |AIDS |HCAPLUS
 Reisler, R |2001 | | |[Abstract 43], Progr |

L37 ANSWER 19 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:521407 HCAPLUS

DN 137:73237

TI Single and combination therapy using drugs with target cellular proteins and drugs which target pathogen-encoded proteins

IN Schaffer, Priscilla A.; Schang, Luis M.

PA The Trustees of the University of Pennsylvania, USA

SO PCT Int. Appl., 153 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002053096	A2	20020711	WO 2001-US47257	20011206 <--
	WO 2002053096	A3	20030130		

W: AU, CA, JP

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE, TR

PRAI	AU 2002245081	A1	20020716	AU 2002-245081	20011206 <--
	US 2000-251623P	P	20001206	<--	
	US 2000-251653P	P	20001206	<--	

WO 2001-US47257 W 20011206 <--

AB The invention relates to the identification of cdk inhibitors as inhibitors of pathogen gene expression, replication and reactivation. The invention also relates to the identification of a combination therapy to inhibit pathogen replication in which a drug that inhibits pathogen replication by targeting a specific pathogen-encoded protein is administered in combination with a drug that inhibits pathogen replication by targeting host-encoded cdk proteins. Compns. and assays for the identification and use of such inhibitors are provided as are methods of use of the inhibitors.

IT 3056-17-5, Stavudine

RL: PAC (Pharmacological activity); THU (Therapeutic

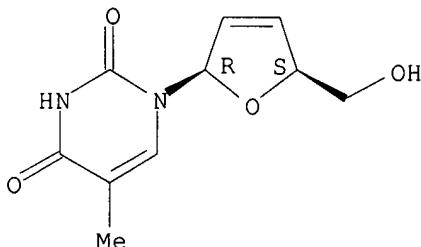
use); BIOL (Biological study); USES (Uses)

(drugs with target cellular proteins and drugs which target pathogen-encoded proteins for single and combination therapy)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



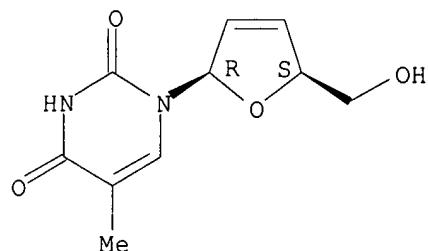
L37 ANSWER 20 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:395261 HCAPLUS

DN 137:15339

TI Hepatotoxicity associated with antiretroviral therapy containing dual versus single protease inhibitors in individuals coinfected with **hepatitis C virus** and human immunodeficiency virus
 AU Cooper, Curtis L.; Parbhakar, M. A.; Angel, Jonathan B.
 CS Division of Infectious Diseases, Ottawa Hospital Research Institute, University of Ottawa, ON, Can.
 SO Clinical Infectious Diseases (2002), 34(9), 1259-1263
 CODEN: CIDIEL; ISSN: 1058-4838
 PB University of Chicago Press
 DT Journal
 LA English
 AB The aim of this study was to determine the rates of patients coinfected with human immunodeficiency virus (HIV) and **hepatitis C virus (HCV)** who discontinued therapy as a result of protease inhibitor (PI)-related hepatotoxicity, a retrospective review was conducted. Baseline CD4 counts, plasma HIV RNA levels, and duration of therapy were comparable between single- and dual-PI-treated subjects and between subjects receiving ritonavir-containing therapy and those receiving ritonavir-sparing therapy. The proportions of patients with elevations in alanine aminotransferase level to ≥ 5 times the upper limit of normal (19% vs. 26%) and hyperbilirubinemia (30% vs. 38%) were similar between the dual-PI ($n = 27$) and single-PI treatment groups ($n = 39$), resp. No difference in these characteristics was observed between ritonavir-containing ($n = 34$) and ritonavir-sparing ($n = 32$) treatment arms. Rates of treatment discontinuation due to hepatotoxicity were similar for single-PI and dual-PI therapy and for ritonavir-containing and ritonavir-sparing regimens. Dual-PI therapy and inclusion of ritonavir do not seem to increase the rates of hepatotoxicity in PI-treated, HIV-HCV coinfected subjects.
 IT 3056-17-5, Stavudine
 RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (hepatotoxicity associated with antiretroviral therapy containing dual vs. single protease inhibitors in individuals coinfected with **hepatitis C virus** and human immunodeficiency virus)
 RN 3056-17-5 HCPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year VOL PG	Referenced Work (R PY) (R VL) (R PG)	Referenced (RWK)	Referenced File
Bica, I	2001 32 1492	Clin Infect Dis		MEDLINE
Bonacini, M	2000 160 3365	Arch Intern Med		MEDLINE
Brau, N	1997 349 1924	Lancet		MEDLINE

Cameron, D	1999	13	213	AIDS	HCAPLUS
Cameron, D	1998	351	543	Lancet	HCAPLUS
Carr, A	2001	357	1412	Lancet	MEDLINE
Den Brinker, M	1998			Program and abstract	
Gerard, Y	2000	14	2723	AIDS	HCAPLUS
Gisolf, E	2000	31	1234	Clin Infect Dis	HCAPLUS
Gulick, R	1997	337	734	N Engl J Med	HCAPLUS
Johri, S	2000	14	1286	AIDS	MEDLINE
Melvin, D	2000	14	463	AIDS	MEDLINE
Miller, K	2000	133	192	Ann Intern Med	MEDLINE
National Institutes of	1992			ACTG criteria: table	
Puoti, M	2000	24	211	J Acquir Immune Defi	HCAPLUS
Rockstroh, J	2000	14	1181	AIDS	HCAPLUS
Saves, M	1999	13	F115	AIDS	HCAPLUS
Saves, M	2000	44	3451	Antimicrob Agents Ch	HCAPLUS
Sulkowski, M	2000	283	74	JAMA	HCAPLUS
Vento, S	1998	12	116	AIDS	MEDLINE
Workman, C	1999		195	Program and abstract	
Zucker, S	2001	98	12671	PNAS	HCAPLUS

L37 ANSWER 21 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:314958 HCAPLUS

DN 136:340939

TI Preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation

IN Stuyver, Lieven; Watanabe, Kyoichi A.

PA Pharmasset Limited, USA

SO PCT Int. Appl., 230 pp.

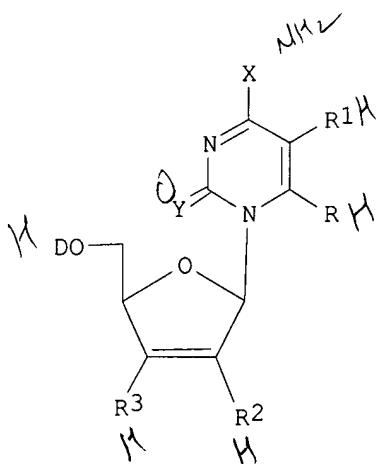
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002032920	A2	20020425	WO 2001-US46113	20011018 <--
	WO 2002032920	A3	20040219		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2426187	AA	20020425	CA 2001-2426187	20011018 <--
	AU 2002028749	A5	20020429	AU 2002-28749	20011018 <--
	US 2003087873	A1	20030508	US 2001-45292	20011018 <--
	EP 1411954	A2	20040428	EP 2001-987756	20011018 <--
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	JP 2004533406	T2	20041104	JP 2002-536301	20011018 <--
	CN 1646141	A	20050727	CN 2001-820816	20011018 <--
	BR 2001014837	A	20060509	BR 2001-14837	20011018 <--
PRAI	US 2000-241488P	P	20001018	<--	
	US 2001-282156P	P	20010406	<--	
	WO 2001-US46113	W	20011018	<--	
OS	MARPAT	136:340939			
GI					

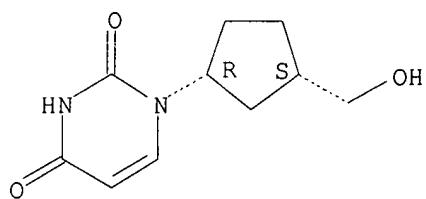


AB Modified nucleosides, e.g. I, wherein D is hydrogen, alkyl, acyl, monophosphate, diphosphate, triphosphate, monophosphate ester, diphosphate ester, triphosphate ester, phospholipid or amino acid; X is H, halogen, NH₂, substituted amine, oxime, OH, alkoxy, SH, thioalkyl; Y is O, S, Se; R and R1 are independently H, alkyl, alkenyl, alkynyl, aryl, alkylaryl, halogen, NH₂, substituted amine, oxime, hydrazine, OH, alkoxy, SH, thioalkyl, NO₂, NO, CH₂OH, CH₂O₂, ester, CONH₂, amide, CN; R2 and R3 are independently H, halogen, OH, SH, OMe, SMe, NH₂, NHMe, CH:CH₂, CN, CH₂NH₂, CH₂OH, CO₂H; were prepared for treating a Flaviviridae (including BVDV and HCV), Orthomyxoviridae (including Influenza A and B) or Paramyxoviridae (including RSV) infection, or conditions related to abnormal cellular proliferation, in a host, including animals, and especially humans. This invention also provides an effective process to quantify the viral load, and in particular BVDV, HCV or West Nile Virus load, in a host, using real-time **polymerase** chain reaction ("TR-PCR"). Addnl., the invention discloses probe mols. that can fluoresce proportionally to the amount of virus present in a sample. Thus, (1'R,2'S,3'R,4'R)-1-[2,3-dihydroxy-4-(hydroxymethyl)cyclopentan-1-yl]-5-fluorocytosine was prepared and tested in vitro as antiviral and antitumor agent.

IT 241806-22-4P 241806-28-0P 415705-39-4P
 415705-40-7P 415705-43-0P 415705-44-1P
 RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation)

RN 241806-22-4 HCPLUS
 CN 2,4(1H,3H)-Pyrimidinedione, 1-[(1R,3S)-3-(hydroxymethyl)cyclopentyl]-(9CI) (CA INDEX NAME)

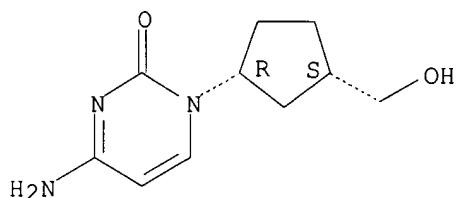
Absolute stereochemistry.



RN 241806-28-0 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(1*R*,3*S*)-3-(hydroxymethyl)cyclopentyl]- (9CI) (CA INDEX NAME)

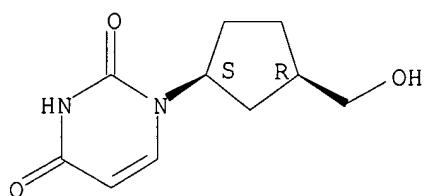
Absolute stereochemistry.



RN 415705-39-4 HCPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-[(1*S*,3*R*)-3-(hydroxymethyl)cyclopentyl]- (9CI) (CA INDEX NAME)

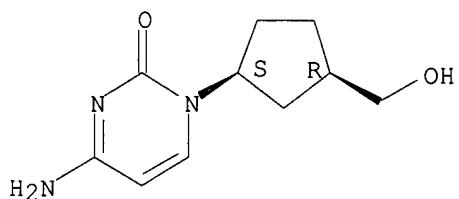
Absolute stereochemistry.



RN 415705-40-7 HCPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(1*S*,3*R*)-3-(hydroxymethyl)cyclopentyl]- (9CI) (CA INDEX NAME)

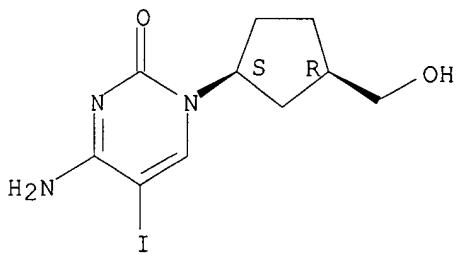
Absolute stereochemistry.



RN 415705-43-0 HCPLUS

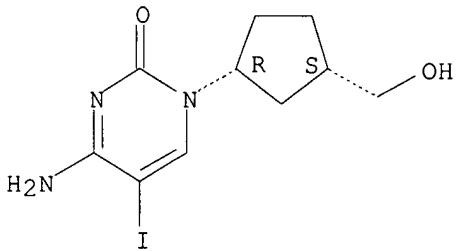
CN 2(1H)-Pyrimidinone, 4-amino-1-[(1*S*,3*R*)-3-(hydroxymethyl)cyclopentyl]-5-iodo- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 415705-44-1 HCPLUS
 CN 2(1H)-Pyrimidinone, 4-amino-1-[(1R,3S)-3-(hydroxymethyl)cyclopentyl]-5-
 iodo- (9CI) (CA INDEX NAME)

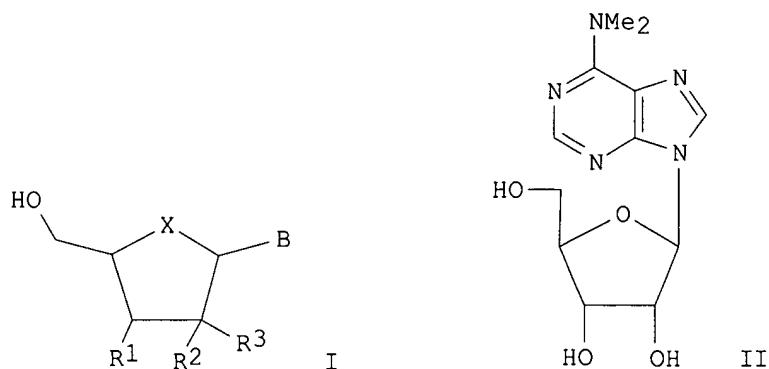
Absolute stereochemistry.



L37 ANSWER 22 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:171918 HCPLUS
 DN 136:217007
 TI Preparation of antiviral nucleoside derivatives as inhibitors of subgenomic hepatitis C virus RNA replication
 IN Devos, Rene; Dymock, Brian William; Hobbs, Christopher John; Jiang, Wen-rong; Martin, Joseph Armstrong; Merrett, John Herbert; Najera, Isabel; Shimma, Nobuo; Tsukuda, Takuo
 PA F. Hoffmann-La Roche Ag, Switz.
 SO PCT Int. Appl., 225 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002018404	A2	20020307	WO 2001-EP9633	20010821 <--
	WO 2002018404	C2	20031002		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003008841	A1	20030109	US 2001-923620	20010807 <--
	CA 2419399	AA	20020307	CA 2001-2419399	20010821 <--

AU 2001095497	A5 20020313	AU 2001-95497	20010821 <--
EP 1315736	A2 20030604	EP 2001-976128	20010821 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
BR 2001013611	A 20030624	BR 2001-13611	20010821 <--
JP 2004513083	T2 20040430	JP 2002-523918	20010821 <--
ZA 2003001540	A 20040621	ZA 2003-1540	20030225 <--
US 2004110718	A1 20040610	US 2003-678804	20031003 <--
PRAI GB 2000-21285	A 20000830	<--	
GB 2000-26611	A 20001031	<--	
US 2001-923620	B1 20010807	<--	
WO 2001-EP9633	W 20010821	<--	
OS MARPAT 136:217007			
GI			



AB Nucleosides I , wherein R1 is hydrogen, hydroxy, alkyl, hydroxyalkyl, alkoxy, halogen, cyano, isocyano or azido; R2 is hydrogen, hydroxy, alkoxy, chlorine, bromine or iodine; R3 is hydrogen; or R2 and R3 together represent =CH₂; or R2 and R3 represent fluorine; X is O, S or CH₂; B is a substituted purine base, were prepared as inhibitors of subgenomic **hepatitis C virus** (HCV) RNA replication. Thus, nucleoside II was prepared and tested for the inhibition of HCV RNA replication (EC₅₀ = 0.6 μM).

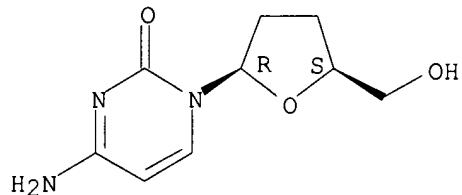
IT 7481-89-2P 121154-57-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of antiviral nucleoside derivs. as inhibitors of subgenomic **hepatitis C virus** RNA replication)

RN 7481-89-2 HCPLUS

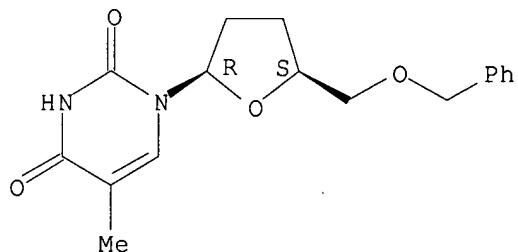
CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 121154-57-2 HCPLUS
 CN Thymidine, 3'-deoxy-5'-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

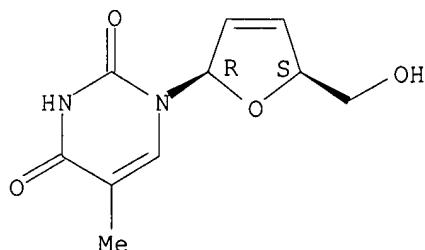


L37 ANSWER 23 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:109650 HCPLUS
 DN 136:288583
 TI Effects of HAART on **hepatitis C, hepatitis G**, and TT virus in multiply coinfecte patients with haemophilia
 AU Takamatsu, J.; Toyoda, H.; Fukuda, Y.; Nakano, I.; Yokozaki, S.; Hayashi, K.; Saito, H.
 CS Department of Transfusion Medicine, Nagoya University School of Medicine, Nagoya, 466-8550, Japan
 SO Haemophilia (2001), 7(6), 575-581
 CODEN: HAEMF4; ISSN: 1351-8216
 PB Blackwell Science Ltd.
 DT Journal
 LA English
 AB In multiply coinfecte human immunodeficiency virus (HIV)-pos. patients, we investigated the effects of high-activity antiretroviral therapy (HAART) using HIV protease inhibitors on three other viruses: **hepatitis C virus (HCV)**, **hepatitis G virus (HGV)**, and TT virus (TTV). Viral concns. were measured serially by polymerase chain reaction methods in five patients with quadruple infection (HIV, **HCV**, HGV, and TTV) and in two patients with triple infection (HIV, **HCV**, and HGV) before and during HAART. In addition, CD4+ cell counts and serum alanine aminotransferase (ALT) levels were measured serially. Generally we observed no difference in serum **HCV** RNA, HGV RNA, or TTV DNA concns. between samples obtained before and after initiation of HAART, whereas HIV RNA concentration decreased and CD4 counts increased in most patients. However, two patients had markedly decreased concns. of **HCV** RNA and HGV RNA, resp., more than 12 mo after beginning HAART. Normalization of serum ALT levels was observed in a patient with decline of **HCV** RNA concns. No interactions were observed among these four viruses. HAART had no apparent direct effects on **HCV**, HGV, or TTV. Further studies will be required to elucidate whether the restoration of immune status through suppression of HIV replication by HAART may affect **HCV** or HGV RNA concns.
 IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (HAART effect on **hepatitis C, hepatitis G**, and TT virus in HIV-pos. patients with multiple coinfections and haemophilia)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

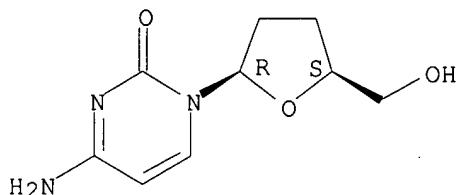
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year VOL PG	Referenced Work (RWK)	Referenced File
=====+=====+=====+=====+=====+=====+=====			
Carpenter, C	1996 276 146	J Am Med Assoc	MEDLINE
Carr, A	1997 349 995	Lancet	MEDLINE
Collier, A	1996 334 1011	N Engl J Med	HCPLUS
Cribier, B	1995 9 1131	AIDS	HCPLUS
De Milito, A	1999 57 140	J Med Virol	HCPLUS
Devereux, H	1998 56 316	J Med Virol	MEDLINE
Dille, B	1997 175 458	J Infect Dis	HCPLUS
Eyster, M	1994 84 1020	Blood	MEDLINE
Fialaire, P	1999 180 574	J Infect Dis	MEDLINE
Garcia-Samaniego, J	1998 28 526	J Hepatol	MEDLINE
Goubau, P	1999 57 367	J Med Virol	MEDLINE
Hammer, S	1997 337 725	N Engl J Med	HCPLUS
Hanley, J	1998 79 291	Thromb Haemost	HCPLUS
Heid, C	1996 6 986	Genome Res	HCPLUS
Inoue, K	1999 30 801	J Hepatol	MEDLINE
Kato, T	2000 38 94	J Clin Microbiol	HCPLUS
Kato, T	1998 55 109	J Med Virol	HCPLUS
Kihara, M	1997 14 S3	J Acq Immun Def Synd	
Kinoshita, T	1997 175 454	J Infect Dis	MEDLINE
Linnen, J	1996 271 505	Science	HCPLUS
Lipsky, J	1996 348 800	Lancet	HCPLUS
Markowitz, M	1995 333 1534	N Engl J Med	HCPLUS
Muerhoff, A	1996 25 379	J Hepatol	HCPLUS
Mushahwar, I	1999 96 3177	Proc Natl Acad Sci U	HCPLUS
Nakao, H	1997 233 43	Virology	HCPLUS
Nishizawa, T	1997 241 92	Biochem Biophys Res	HCPLUS

Okamoto, H	1998	10	1	Hepatol Res	
Okamoto, H	1996	57	31	J Virol Meth	HCAPLUS
Okamoto, H	1990	60	215	Jpn J Exp Med	MEDLINE
Perez-Olmeda, M	2000	14	212	AIDS	MEDLINE
Prescott, L	1998	339	776	N Engl J Med	MEDLINE
Rizzieri, D	1997	349	775	Lancet	MEDLINE
Rockstroh, J	1998	12	829	AIDS	MEDLINE
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
Simmonds, P	1994	19	1321	Hepatology	MEDLINE
Simons, J	1995	1	564	Nat Med	HCAPLUS
Tacke, M	1997	349	318	Lancet	HCAPLUS
Takahashi, K	1998	12	233	Hepatol Res	
Takayama, S	1999	104	626	Br J Haematol	MEDLINE
Tanaka, T	1999	57	370	J Med Virol	HCAPLUS
Thomas, D	1998	177	539	J Infect Dis	MEDLINE
Toyoda, H	1999	29	1332	Clin Infect Dis	MEDLINE
Toyoda, H	1999	38	198	J Infect	MEDLINE
Toyoda, H	1998	80	242	Thromb Haemost	HCAPLUS
Yokozaki, S	2000	96	4293	Blood	HCAPLUS
Yokozaki, S	1999	105	1114	Br J Haematol	MEDLINE
Zuckerman, A	1996	347	558	Lancet	MEDLINE
Zuckerman, A	1999	353	932	Lancet	MEDLINE
Zylberberg, H	1998	26	1104	Clin Infect Dis	MEDLINE

L37 ANSWER 24 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:107667 HCAPLUS

DN 136:145568

TI Improved tolerance to anti-viral and anti-tumor chemotherapy by administration of erythropoietin

IN Itri, Loretta; Bowers, Peter

PA Ortho-McNeil Pharmaceutical, Inc., USA

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002010743	A1	20020207	WO 2001-US24426	20010801 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	US 2002052317	A1	20020502	US 2001-921516	20010801 <--
	EP 1325324	A1	20030709	EP 2001-959497	20010801 <--
PRAI	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004505114	T2	20040219	JP 2002-516619	20010801 <--
	BR 2001013179	A	20040622	BR 2001-13179	20010801 <--
	ZA 2003001634	A	20040622	ZA 2003-1634	20030227 <--
PRAI	US 2000-222538P	P	20000802 <--		
	WO 2001-US24426	W	20010801 <--		
AB	The present invention provides methods using erythropoietin to improve the tolerance of anti-viral and anti-tumor chemotherapeutic regimens containing				

interferon. The invention also described improved methods to treat chronic HCV by adjusting the dose of ribavirin to tailor the active dose of the drug while supporting the Hb levels in the patient with EPO. The present invention also provides anti-viral dosing regimens, particularly for chronic HCV comprising administration of an interferon containing anti-viral medicament, EPO, and a compound that reduces the amount of active tumor necrosis factor in the subject.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

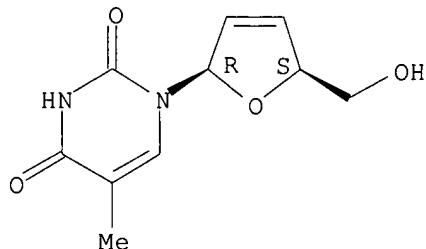
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(improved tolerance to anti-viral and anti-tumor chemotherapy by administration of erythropoietin)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

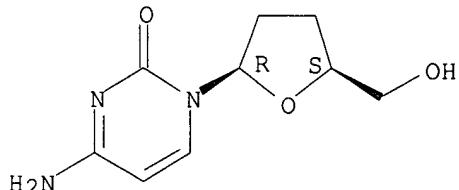
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



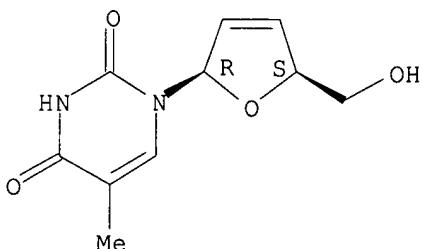
RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Akpek, G	1999	86	1368	Lymphoma	HCPLUS
Aviles, A	1995	10	273	Cancer Biother	HCPLUS
Bajorin, D	2000	88	1671	Cancer	HCPLUS
Bourantas, K	1996	96	79	Acta Haematol	HCPLUS
Cortes, J	1996	100	452	American Journal of	MEDLINE
Hilbe, W	1999	102	99	Acta Haematol	HCPLUS
Hinotsu, S	1999	86	1818	Cancer	MEDLINE
McPherson, E	2000	96	7B	Suppression of Hepat	
Naglieri, E	1998	3B	2021	Anticancer Research	
Peuckmann, V	2000	60	273	Drugs	HCPLUS
Pronzato, P	1995	15	2679	Anticancer Res	HCPLUS
Reichard, O	1997	26	108S	Hepatology	
Tetreault, S	1999	35	347	Leukemia and Lymphom	MEDLINE

Trimble, E |2000 |27 |24 |Seminars in Oncology|MEDLINE

L37 ANSWER 25 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2002:69299 HCAPLUS
 DN 136:272695
 TI Hepatotoxicity associated with nevirapine or efavirenz-containing antiretroviral therapy: Role of **hepatitis C** and B infections
 AU Sulkowski, Mark S.; Thomas, David L.; Mehta, Shruti H.; Chaisson, Richard E.; Moore, Richard D.
 CS Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD, 21205, USA
 SO Hepatology (Philadelphia, PA, United States) (2002), 35(1), 182-189
 CODEN: HPTLD9; ISSN: 0270-9139
 PB W. B. Saunders Co.
 DT Journal
 LA English
 AB Hepatologists are frequently asked to evaluate human immunodeficiency virus (HIV)-infected patients with abnormal liver enzymes and to assess the causal role of medications, such as antiretroviral drugs. Recently, the use of HIV-1 specific non-nucleoside reverse transcriptase inhibitors (NNRTIs), including nevirapine (NVP) and efavirenz (EFV), has been associated with severe hepatic injury. We prospectively studied the incidence of severe hepatotoxicity (grade 3 or 4 change in alanine or aspartate transaminase levels) among 568 patients receiving NNRTI-containing antiretroviral therapy, including 312 and 256 patients prescribed Efv and Nvp, resp. **Hepatitis C virus (HCV)** and **hepatitis B virus (HBV)** were detected in 43% and 7.7% of patients, resp. Severe hepatotoxicity was observed in 15.6% of patients prescribed NVP and 8.0% of those prescribed Efv, but only 32% of NVP and 50% of Efv-associated episodes were detected during the first 12-wk of therapy. The risk was significantly greater among persons with chronic viral **hepatitis** (69% of cases) and those prescribed concurrent protease inhibitors (PIs) (82% of cases). Nonetheless, 84% of patients with chronic **HCV** or **HBV** did not experience severe hepatotoxicity. Severe hepatotoxicity occurs throughout the course of NNRTI therapy and is more common among patients prescribed nevirapine, those coinfected with **HCV** or **HBV**, and those coadministered protease inhibitors.
 IT 3056-17-5, Stavudine
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nevirapine- or efavirenz-containing antiretroviral therapy: hepatotoxicity in HIV patients infected with HBV or **HCV**)
 RN 3056-17-5 HCAPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Albrecht, M	2001	345	398	N Engl J Med	HCAPLUS
Antinori, A	2001	15	1579	AIDS	HCAPLUS
Bartlett, J	2001			Program and abstract	
Benhamou, Y	1999	30	1054	Hepatology	MEDLINE
Bersoff-Matcha, S	2001	32	124	Clin Infect Dis	MEDLINE
Brau, N	1997	349	924	Lancet	MEDLINE
Carr, A	2001	357	1412	Lancet	MEDLINE
Cattelan, A	1999	29	455	Clin Infect Dis	MEDLINE
Clarke, S	2000	31	806	Clin Infect Dis	MEDLINE
den Brinker, M	2000	14	2895	AIDS	HCAPLUS
Dieterich, D	2001			1st International	
Dupont Pharmaceuticals	2000			Efavirenz (Sustiva)	
D'Aquila, R	1996	124	1019	Ann Intern Med	HCAPLUS
Fagot, J	2001	15	1843	AIDS	MEDLINE
Fiske, W	1999			Program and abstract	
Haas, D	2001	183	392	J Infect Dis	HCAPLUS
John, M	1998	12	2289	AIDS	HCAPLUS
Johnson, S	2000	284	2722	JAMA	MEDLINE
Kronenberg, A	2001	358	759	Lancet	MEDLINE
Lucas, G	2001	15	1679	AIDS	HCAPLUS
Martinez, E	2001	15	1261	AIDS	HCAPLUS
Marzolini, C	2001	15	71	AIDS	HCAPLUS
Maserati, R	1999	13	870	AIDS	MEDLINE
Miguez-Burbano, M	2001			1st International	
Miwa, L	1997	157	2129	Arch Intern Med	MEDLINE
Monga, H	2001	33	240	Clin Infect Dis	MEDLINE
Montaner, J	1998	279	930	JAMA	HCAPLUS
Moore, R	1994	330	763	N Engl J Med	MEDLINE
Moyle, G	2001	61	19	Drugs	HCAPLUS
Nunez, M	2001	27	426	J Acquir Immune Defi	HCAPLUS
Palella, F	1998	338	853	N Engl J Med	
Palmon, R	2000	32	312A	Hepatology	
Perrillo, R	1986	105	382	Ann Intern Med	MEDLINE
Peytavin, G	2001			1st International	
Pollard, R	1998	20	1071	Clin Ther	HCAPLUS
Prakash, M	2001	96	1571	Am J Gastroenterol	MEDLINE
Ragni, M	1999	180	2027	J Infect Dis	MEDLINE
Reisler, R	2001			1st International	
Rey, D	2001	27	459	J Acquir Immune Defi	HCAPLUS
Rodriguez-Rosado, R	1998	12	1256	AIDS	MEDLINE
Roxane Laboratories Inc	2000			Nevirapine (Viramune)	
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
Saves, M	1999	13	F115	AIDS	HCAPLUS
Sha, B	2000	284	2723	JAMA	MEDLINE
Staszewski, S	1999	341	1865	N Engl J Med	HCAPLUS
Sulkowski, M	2000	30	S77	Clin Infect Dis	
Sulkowski, M	2000	283	74	JAMA	HCAPLUS
Thomas, D	2000	284	450	JAMA	MEDLINE
Verdon, R	2001	34	783	J Hepatol	MEDLINE
Veronese, L	2000	44	821	Antimicrob Agents Ch	HCAPLUS
von Moltke, L	2001	41	85	J Clin Pharmacol	HCAPLUS
Zylberberg, H	1996	23	1117	Clin Infect Dis	MEDLINE

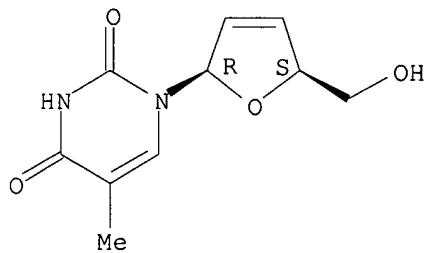
L37 ANSWER 26 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:935354 HCAPLUS

DN 136:64094
 TI The use of synthetic, non-hormonal 21-aminosteroids, derivatives, metabolites, and precursors thereof in the treatment of viral infections
 IN Prendergast, Patrick Thomas
 PA Kotze, Gavin Salomon, S. Afr.
 SO PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1

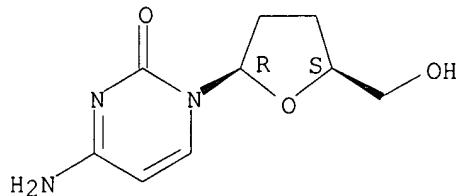
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001097749	A2	20011227	WO 2001-IB1101	20010622 <--
	WO 2001097749	A3	20020523		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
	AU 2001074383	A5	20020102	AU 2001-74383	20010622 <--
PRAI	IE 2000-511	A	20000623	<--	
	IE 2001-275	A	20010321	<--	
	WO 2001-IB1101	W	20010622	<--	
AB	The invention discloses the use of synthetic, non-hormonal 21-aminosteroids, derivs., metabolites, and precursors thereof in the treatment of viral infections, particularly hepatitis and retroviral infection by HIV. Synthetic non-hormonal 21-aminosteroids are disclosed for use in the prophylaxis and therapy of hepatitis viral infections. These compds. can be administered alone or in combination with conventional antiviral agents.				
IT	3056-17-5, d4T 7481-89-2, DdC RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aminosteroids, derivs., metabolites, and precursors for treatment of viral infection, and use with other agents)				
RN	3056-17-5 HCPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



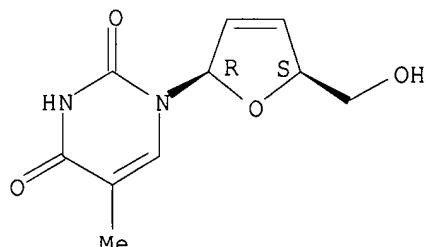
L37 ANSWER 27 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:866574 HCPLUS
 DN 136:177515
 TI Decrease of elevated N,N-dimethylglycine and N-methylglycine in human immunodeficiency virus infection during short-term highly active antiretroviral therapy
 AU Look, Markus P.; Riezler, Reiner; Berthold, Heiner K.; Stabler, Sally P.; Schliefer, Kirsten; Allen, Robert H.; Sauerbruch, Tilman; Rockstroh, Jurgen K.
 CS Department of Internal Medicine I, University of Bonn, Bonn, 53105, Germany
 SO Metabolism, Clinical and Experimental (2001), 50(11), 1275-1281
 CODEN: METAAJ; ISSN: 0026-0495
 PB W. B. Saunders Co.
 DT Journal
 LA English
 AB This study investigates fasting serum levels of methionine and related metabolites, vitamin B6, and folate during highly active antiretroviral therapy in therapy-naive human immunodeficiency virus (HIV)-1-infected outpatients. The research design consisted of before and during therapy measurements with a median treatment period of 100 days (range, 50 to 188) in frozen samples. The subjects included 17 consecutive HIV-1-infected outpatients (15 men and 2 women; 25 to 65-yr-old). Controls were 42 healthy individuals (28 men and 14 women; 24- to 82-yr-old) without serol. evidence of HIV and/or hepatitis C infection and normal clin. chemical Subjects received treatment with the reverse transcriptase inhibitors, azidothymidine (AZT) or stavudine (D4T) plus lamivudine (3TC) and either the protease inhibitors, indinavir (IND), nelfinavir (NELF), ritonavir (RITV), or saquinavir (SAQ) at the standard dosage. Serum concns. of methionine, total homocysteine (tHcy), cystathione (CYSTA), N,N-dimethylglycine (DMG), N-methylglycine (MG), methylmalonic acid (MMA), and total cysteine, as well as vitamin B6, folate, and soluble tumor necrosis factor receptor p75 were taken at baseline and during highly active antiretroviral therapy. Baseline, serum tHcy, MMA, CYSTA, vitamin B6 concns. were not significantly different from healthy controls. There was, however, a trend towards lower folate serum concns. at baseline in HIV-infected patients as compared with healthy controls ($P = .06$). There were no significant correlations between tHcy and vitamin B6, folate, or MMA. Elevated baseline levels of DMG and MG decreased significantly during antiretroviral therapy ($P = .0019$ and .04, resp.), whereas no significant changes in serum concns. of CYSTA, MMA, or methionine were detected. THcy increased in 12 of 17 patients ($P = .09$). HIV-infected patients displayed significant alterations (elevated DMG and MG serum concns.) in metabolite levels of the betaine pathway in methionine metabolism, which might be pos. influenced by newly initiated antiretroviral combination therapy.
 IT 3056-17-5, Stavudine
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(levels of methionine and related metabolites, vitamin B6 and folate in HIV-infected humans during short-term highly active antiretroviral therapy)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Akerlund, B	1996	50	457	Eur J Clin Pharmacol	MEDLINE
Allen, R	1993	42	1448	Metabolism	HCPLUS
Baum, M	1991	4	1122	J Acquir Immune Defi	MEDLINE
Behrens, G	1999	13	63	AIDS	
Berthold, H	1999	246	567	J Intern Med	HCPLUS
Breitkreutz, R	2000	16	203	AIDS Res Hum Retrovi	HCPLUS
Buhl, R	1989	2	1294	Lancet	MEDLINE
Burgunder, J	1987	17	408	Eur J Clin Invest	MEDLINE
Cameron, D	1998	351	543	Lancet	HCPLUS
Carpenter, C	1998	280	78	JAMA	HCPLUS
Carr, A	1998	351	1881	Lancet	HCPLUS
Castagna, A	1995	45	1678	Neurology	MEDLINE
Centers For Disease Con	1993	41	1	MMWR Morb Mortal Wkl	
Christeff, N	1999	13	2251	AIDS	HCPLUS
Corrales, F	1991	14	528	Hepatology	HCPLUS
de Quay, B	1992	6	305	AIDS	
den Heijer, M	1996	334	759	N Engl J Med	MEDLINE
Eck, H	1989	370	101	Biol Chem Hoppe-Seyl	HCPLUS
Eikelboom, J	1999	131	363	Ann Intern Med	HCPLUS
Folsom, A	1998	98	204	Circulation	HCPLUS
Fugakawa, N	1998	68	380	Am J Clin Nutr	
Gallet, B	1998	351	1958	Lancet	MEDLINE
Henry, K	1998	351	1328	Lancet	MEDLINE
Hortin, G	1994	40	785	Clin Chem	MEDLINE
Kang, S	1991	48	536	Am J Hum Genet	MEDLINE
Keating, J	1991	337	935	Lancet	MEDLINE
Laurichesse, H	1998	128	1342	J Nutr	HCPLUS
Lo, J	1998	351	867	Lancet	MEDLINE
Loguerico, C	1994	29	597	Alcohol Alcohol	
Look, M	2000	16	1215	AIDS Res Hum Retrovi	HCPLUS
Look, M	1997	51	266	Eur J Clin Nutr	MEDLINE
Look, M	2000	35	866	Scand J Gastroentero	HCPLUS
Martin, J	2001	285	1444	JAMA	MEDLINE
Mato, J	1999	30	1081	J Hepatol	HCPLUS
Meister, A	1983	52	711	Annu Rev Biochem	HCPLUS
Mudd, S	1995	1	1279	The Metabolic and Mo	
Muller, F	1996	63	242	Am J Clin Nutr	MEDLINE

Naurath, H	1995 346 85 Lancet HCAPLUS
Nygard, O	1997 337 230 N Engl J Med MEDLINE
Pace, G	1995 19 523 Free Radic Biol Med HCAPLUS
Perry, I	1995 22 1395 Lancet
Selhub, J	1992 55 131 Am J Clin Nutr HCAPLUS
Selhub, J	1995 332 286 N Engl J Med MEDLINE
Skurnick, J	1996 12 75 J Aquir Immune Defic MEDLINE
Staal, F	1992 8 807 AIDS Res Hum Retrovi
Stabler, S	1993 81 3404 Blood MEDLINE
Stein, D	1997 175 1161 J Infect Dis
Ubbink, J	1999 70 789 Am J Clin Nutr HCAPLUS
Ubbink, J	1985 342 277 J Chromatogr HCAPLUS
Ubbink, J	1996 98 177 J Clin Invest HCAPLUS
van der Ven, A	1998 28 187 Eur J Clin Invest MEDLINE

L37 ANSWER 28 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:838939 HCAPLUS

DN 136:144717

TI Interferon and ribavirin combination therapy for chronic **hepatitis C** in human immunodeficiency virus-infected patients with congenital coagulation disorders

AU Sauleda, Silvia; Juarez, Alberto; Esteban, Juan I.; Altisent, Carmen; Ruiz, Isabel; Puig, Lluis; Esteban, Rafael; Guardia, Jaime

CS Centre de Transfusio i Banc de Teixits, Servei Catala de la Salut, Hospital Universitari Vall d'Hebron, Universitat Autonoma de Barcelona, Barcelona, 08035, Spain

SO Hepatology (Philadelphia, PA, United States) (2001), 34(5), 1035-1040

CODEN: HPTLD9; ISSN: 0270-9139

PB W. B. Saunders Co.

DT Journal

LA English

AB We have conducted an open, prospective trial to assess the safety and efficacy of interferon alfa-2b and ribavirin in combination for the treatment of chronic **hepatitis C** in human immunodeficiency virus (HIV)-infected hemophiliacs. Twenty hemophiliacs coinfecte with HIV and **hepatitis C virus (HCV)**, 18 of them under highly active antiretroviral therapy (HAART), with a mean CD4+ cell count of 490 ± 176 cells/mm³ and undetectable ($n = 9$) or low-level HIV RNA ($<10,000$ copies/mL; $n = 11$), were treated with interferon-alpha2b (3 MU thrice weekly) and ribavirin (800 mg/d) for 6 or 12 mo according to virol. response. Patients were monitored for tolerance and response at 4, 8, 12, 24, 36, and 48 wk during treatment and every other month thereafter. All 20 patients enrolled completed at least 6 mo of treatment with no major side effect requiring treatment withdrawal, dose reduction, or modification of HAART. Overall, 8 patients (40%) achieved a sustained virol. response at the end of the 6-mo post-treatment follow-up. Sustained responders had lower baseline HCV-RNA levels (5.7 ± 0.8 vs. 6.3 ± 0.4 log₁₀ IU/mL, $P = .041$) but were otherwise similar to nonresponders. All sustained responders had a decrease in HCV-RNA level of at least 1 log per mo during the first 2 mo and undetectable levels at 6 mo. In conclusion, our results provide evidence that combination therapy with interferon and ribavirin is safe in HIV-infected hemophiliacs with stable CD4 cell count and undetectable or low-level HIV replication, and leads to eradication of HCV in 40% of these patients.

IT 3056-17-5, Stavudine

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

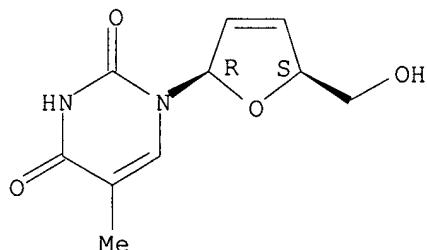
(interferon and ribavirin combination therapy for chronic

hepatitis C in HIV infected humans with congenital coagulation disorders)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Causse, X	2000	32	1003	J Hepatol	HCPLUS
Darby, S	1997	350	1425	Lancet	MEDLINE
Davis, G	1998	339	1493	N Engl J Med	HCPLUS
Dieterich, D	1999			50th AASLD Annual	
Dieterich, D	1999	107	79S	Am J Med	MEDLINE
Eyster, M	1993	6	602	J Acquir Immune Defi	MEDLINE
Greub, G	2000	356	1800	Lancet	MEDLINE
John, M	1998	12	2289	AIDS	HCPLUS
Landau, A	2000	14	1857	AIDS	HCPLUS
Landau, A	2000	14	839	AIDS	HCPLUS
Lessens, O	1999	79	1254	J Infect Dis	
Makris, M	1996	94	746	Br J Haematol	MEDLINE
Martin, P	1989	97	1559	Gastroenterology	MEDLINE
McHutchinson, J	2000			51st AASLD Annual	
McHutchison, J	1998	339	1485	N Engl J Med	HCPLUS
Morsica, G	2000	14	1656	AIDS	HCPLUS
Puoti, M	2000	181	2033	J Infect Dis	MEDLINE
Rockstroh, J	1996	91	2563	Am J Gastroenterol	MEDLINE
Sauleda, S	2000	83	807	Thromb Haemost	HCPLUS
Sim, S	1998	14	1661	AIDS Res Hum Retrovi	HCPLUS
Soriano, V	1996	23	585	Clin Infect Dis	HCPLUS
Sulkowski, M	2000	283	74	JAMA	HCPLUS
Tedder, R	1991	79	512	Br J Haematol	MEDLINE
Telfer, P	1994	87	555	Br J Haematol	MEDLINE
Troisi, C	1993	81	1412	Blood	
Vogt, M	1987	235	1376	Science	HCPLUS
Zybelberg, H	1998	27	1255	Clin Infect Dis	
Zylberberg, H	2000	47	694	Gut	HCPLUS

L37 ANSWER 29 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2001:808478 HCPLUS

DN 136:114686

TI **Hepatitis C Virus NS3 NTPase/Helicase:**

Different Stereoselectivity in Nucleoside Triphosphate Utilisation
Suggests that NTPase and Helicase Activities are Coupled by a
Nucleotide-dependent Rate Limiting Step

AU Locatelli, Giada A.; Gosselin, Gilles; Spadari, Silvio; Maga, Giovanni

CS Istituto di Genetica Biochimica ed Evoluzionistica IGBE-CNR, Pavia, Italy

SO Journal of Molecular Biology (2001), 313(4), 683-694
 CODEN: JMOBAK; ISSN: 0022-2836

PB Academic Press

DT Journal

LA English

AB Hepatitis C virus (HCV) NS3

protein is a multifunctional enzyme, possessing protease, NTPase and helicase activities within a single polypeptide of 625 amino acid residues. These activities are essential for the virus life cycle and are considered attractive targets for anti-HCV chemotherapy. Beside ATP, the NS3 protein has the ability to utilize deoxynucleoside triphosphates (dNTPs) as the energy source for nucleic acid unwinding. We have performed an extensive anal. of the substrate specificities of both NS3 NTPase and helicase activities with respect to all four dNTPs as well as with dideoxynucleoside triphosphate (ddNTP) analogs, including both D-(β) and L-(β)-deoxy and dideoxy-nucleoside triphosphates. Our results show that almost all dNTPs and ddNTPs tested were able to inhibit hydrolysis of ATP by the NTPase activity, albeit with different efficiencies. Moreover, this activity showed almost no stereoselectivity, being able to recognize both D-(β), L-(β)-deoxy and ddNTPs. On the contrary, the helicase activity had more strict substrate selectivity, since, among D-(β)-nucleotides, only ddTTP and its analog 2',3'-didehydro-thymidine triphosphate could be used as substrates with an efficiency comparable to ATP, whereas among L-(β)-nucleotides, only L-(β)-dATP was utilized. Comparison of the steady-state kinetic parameters for both reactions, suggested that dATP, L-(β)-dCTP and L-(β)-dTTP, specifically reduced a rate limiting step present in the helicase, but not in the NTPase, reaction pathway. These results suggest that NS3-associated NTPase and helicase activities have different sensitivities towards different classes of deoxy and dideoxy-nucleoside analogs, depending on a specific step in the reaction, as well as show different enantioselectivity for the D-(β) and L-(β)- conformations of the sugar ring. These observations provide an essential mechanistic background for the development of specific nucleotide analogs targeting either activity as potential anti-HCV agents. (c)

2001 Academic Press.

IT 611-60-9, DdTTP 26194-89-8, 2',3'-Didehydro-3'-deoxythymidine 5'-triphosphate 66004-77-1, DdCTP
 161170-30-5

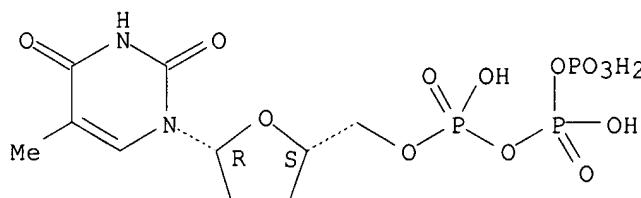
RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (stereoselectivity of hepatitis C virus

NS3 NTPase/helicase suggests NTPase and helicase activities are coupled by nucleotide-dependent rate limiting step)

RN 611-60-9 HCPLUS

CN Thymidine 5'-(tetrahydrogen triphosphate), 3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

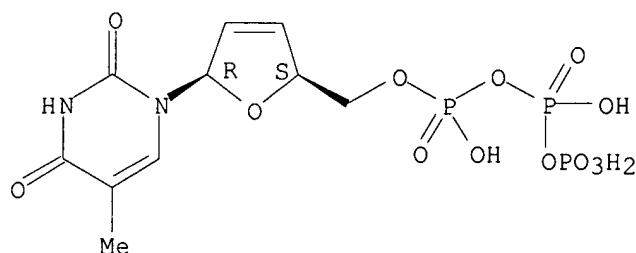


RN 26194-89-8 HCPLUS

CN Thymidine 5'-(tetrahydrogen triphosphate), 2',3'-didehydro-3'-deoxy- (9CI)

(CA INDEX NAME)

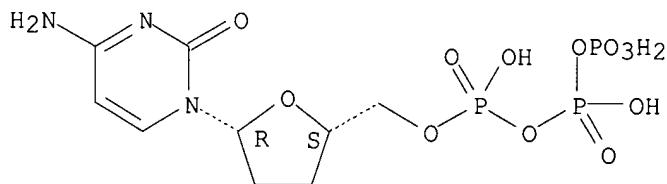
Absolute stereochemistry.



RN 66004-77-1 HCPLUS

CN Cytidine 5'-(tetrahydrogen triphosphate), 2',3'-dideoxy- (9CI) (CA INDEX NAME)

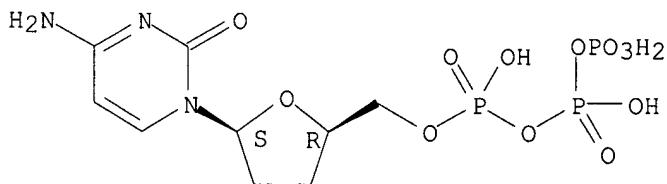
Absolute stereochemistry.



RN 161170-30-5 HCPLUS

CN Triphosphoric acid, P-[(2R,5S)-5-(4-amino-2-oxo-1(2H)-pyrimidinyl)tetrahydro-2-furanyl]methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File (HCPLUS)
Bartenschlager, R	1995	69	7519	J Virol	HCPLUS
Borowski, P	2001	75	3220	J Virol	HCPLUS
Bujalowski, W	2000	39	2106	Biochemistry	HCPLUS
Butkiewicz, N	1996	225	328	Virology	HCPLUS
Choo, Q	1991	88	2451	Proc Natl Acad Sci U S A	HCPLUS
Choo, Q	1989	244	359	Science	HCPLUS
Clarke, B	1997	78	12397	J Gen Virol	HCPLUS
Gallinari, P	1998	72	16758	J Virol	HCPLUS
Gorbalyena, A	1993	3	419	Curr Opin Struct Biol	HCPLUS
Gwack, Y	1996	225	1654	Biochem Biophys Res	HCPLUS
Gwack, Y	1997	250	147	Eur J Biochem	HCPLUS

Jin, L	1995	323	147	Arch Biochem Biophys HCAPLUS
Kim, J	1998	6	189	Structure HCAPLUS
Kwong, A	1999	41	167	Antiviral Res MEDLINE
Kwong, A	2000	242	171	Curr Top Microbiol I HCAPLUS
Levin, M	1999	274	131839	J Biol Chem HCAPLUS
Lin, C	1999	73	18798	J Virol HCAPLUS
Lohman, T	1996	65	1169	Annu Rev Biochem HCAPLUS
Maga, G	1994	302	1279	Biochem J HCAPLUS
Maga, G	1999	27	1972	Nucl Acids Res HCAPLUS
Maga, G	1999	18	1795	Nucleos Nucleot HCAPLUS
Marians, K	2000	8	R227	Struct Fold Des HCAPLUS
Markland, W	1997	78	139	J Gen Virol HCAPLUS
Paolini, C	2000	81	1335	J Gen Virol HCAPLUS
Patel, S	2000	69	1651	Annu Rev Biochem HCAPLUS
Preugschat, F	1996	271	24449	J Biol Chem HCAPLUS
Rajendran, S	2000	303	1773	J Mol Biol HCAPLUS
Spadari, S	1995	77	1861	Biochimie HCAPLUS
Spadari, S	1995	47	1231	Mol Pharmacol HCAPLUS
Tackett, A	2001	29	565	Nucl Acids Res HCAPLUS
Tai, C	1996	70	18477	J Virol HCAPLUS
Utama, A	2000	273	316	Virology HCAPLUS
Walker, M	1999	4	1518	Drug Discov Today HCAPLUS
Wardell, A	1999	80	1701	J Gen Virol HCAPLUS
Yan, Y	1998	7	1837	Protein Sci HCAPLUS
Yao, N	1999	7	1353	Struct Fold Des HCAPLUS
Yong, Y	1995	270	124509	J Biol Chem HCAPLUS

L37 ANSWER 30 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:784185 HCAPLUS

DN 136:95621

TI Low frequency of severe hepatotoxicity and association with **HCV** coinfection in HIV-positive patients treated with HAART

AU Monforte, Antonell d'Arminio; Bugarini, Roberto; Pezzotti, Patrizio; De Luca, Andrea; Antinori, Andrea; Mussini, Cristina; Vigevani, Gian Marco; Tirelli, Umberto; Bruno, Raffaele; Gritti, Francesco; Piazza, Marcello; Chigiotti, Silvia; Chirianni, Antonio; De Stefano, Carlo; Pizzigallo, Eligio; Perrella, Oreste; Moroni, Mauro

CS ICONA Study Group, Institute of Infectious and Tropical Diseases, L Sacco H, University of Milan, Milan, 20157, Italy

SO JAIDS, Journal of Acquired Immune Deficiency Syndromes (2001), 28(2), 114-123

CODEN: JJASFJ

PB Lippincott Williams & Wilkins

DT Journal

LA English

AB Highly active antiretroviral therapy (HAART) is strongly effective in reducing morbidity and mortality in HIV-1-pos. individuals. Its main drawback is the potential toxicity. Data on the frequency and determinants of severe hepatotoxicity in a clin. setting are still sparse. This is a prospective study of HIV-1-pos. individuals with known HBsAg and HCV-Ab serol. The study end point was progression to alanine aminotransferase (ALT) levels ≥ 200 IU/L after HAART initiation. Cumulative probability of progression to this end point was estimated by the Kaplan-Meier method. Crude and adjusted hazard ratios (HR) were estimated by proportional hazards regression model. One thousand two hundred fifty-five patients were included. HBsAg was found in 91 (7.2%), HCV-Ab in 578 (46.5%) patients; almost all injection drug users (451 of 482; 93.6%) were HCV-Ab pos. Sixty-one individuals progressed to the end point with a probability of 7.9% (95% confidence interval [CI], 5.6-10.0) of progression at 24 mo from starting.

Independent factors predicting progression to the end point were baseline ALT levels (HR, 5.29; 95% CI, 3.24-8.65; every 10 IU/L higher), HCV-Ab positivity (HR, 4.01; 95% CI, 1.48-10.85) or both HBsAg and HCV-Ab positivity (HR, 3.85, 95% CI, 1.01-14.61), and previous non-HAART therapy (HR, 1.84, 95% CI, 1.04-3.42). Patients receiving stavudine-containing regimens had a lower risk than those receiving zidovudine-containing regimens (HR, 0.30, 95% CI, 0.12-0.71). There was a low risk of ALT \geq 200 IU/L in the authors' cohort. **Hepatitis C** coinfection and elevated ALT levels at HAART initiation are important predictors of progression to ALT \geq 200 IU/L; stavudine-containing regimens were associated with a lower risk compared with zidovudine-containing regimens.

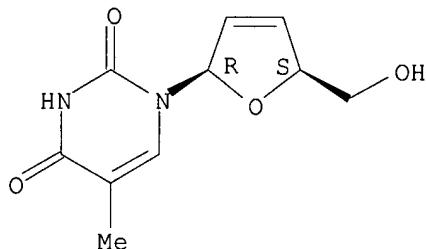
IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(low frequency of severe hepatotoxicity and association with HCV coinfection in HIV-pos. humans treated with HAART)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

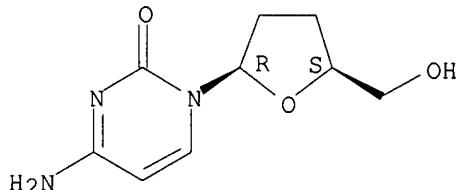
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Anon	2000	1	176	HIV Medicine	
Arribas, J	1998	12	1722	AIDS	MEDLINE
Carpenter, C	2000	283	381	JAMA	MEDLINE
Carr, A	1998	12	F51	AIDS	MEDLINE
Carr, A	1999	353	2093	Lancet	MEDLINE
Centers for Disease Control and Prevention	1992	41	19	MMWR Morb Mortal Wkly Rep	
den Brinker, M	2000	14	2895	AIDS	HCPLUS
Garfein, R	1996	86	655	Am J Pub Health	MEDLINE
Giusti, G	1989	17	237	Infection	MEDLINE

John, M	1998	12	2289	AIDS	HCAPLUS
Lee, B	1992	14	773	Clin Infect Dis	MEDLINE
Liang, K	1986	73	13	Biometrika	
Mele, A	1996	VII	1	Rapporti ISTISAN 96/	
Mocroft, A	1998	352	1725	Lancet	MEDLINE
Monforte d'A	2000	14	499	AIDS	
Palella, F	1998	338	853	N Engl J Med	
Perrillo, R	1986	105	3382	Ann Intern Med	
Rodriguez-Rosado, R	1998	12	1256	AIDS	MEDLINE
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
Sulkowski, M	2000	283	74	JAMA	HCAPLUS
Thomas, D	1998	28	568	Hepatology	
Vanhove, G	1996	276	1955	JAMA	MEDLINE
Vento, S	1998	12	116	AIDS	MEDLINE
Zylberberg, H	1998	26	1104	Clin Infect Dis	MEDLINE

L37 ANSWER 31 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:682395 HCAPLUS

DN 135:366359

TI Risk factors for severe hepatic injury after introduction of highly active antiretroviral therapy

AU Nunez, Marina; Lana, Raquel; Mendoza, Juan Luis; Martin-Carbonero, Luz; Soriano, Vincent

CS Service of Infectious Diseases, Hospital Carlos III, Instituto de Salud Carlos III, Madrid, Spain

SO JAIDS, Journal of Acquired Immune Deficiency Syndromes (2001), 27(5), 426-431

CODEN: JJASFJ

PB Lippincott Williams & Wilkins

DT Journal

LA English

AB Treatment of HIV infection with highly antiretroviral therapy (HAART) may be limited by liver toxicity. Its incidence and risk factors are not well known. Retrospective chart review. Naive patients beginning HAART between Jan. 1997 and Jan. 2000. Severe transaminase elevation was defined as fivefold or higher rise over upper normal limits, or as ≥ 3.5 -fold rise above abnormal baseline values. Of 222 study subjects, 38%, 5%, and 2% were coinfected with **hepatitis C virus (HCV)**, **hepatitis B virus**, and **hepatitis D virus**, resp. Besides two nucleoside reverse transcriptase inhibitors (NRTIs), 96 patients received protease inhibitors (PIs), 90 received nonnucleoside reverse transcriptase inhibitors (NNRTIs), and 35 received a PI + NNRTI combination. Severe hepatic injury developed in 21 (9%): 10% PI, 9%, and 9% PI + NNRTI. Both univariate and multivariate analyses identified alc. abuse, **HCV** coinfection, and older age as independent risk factors. Predictor variables in the final multivariate model were: alc. abuse (risk ratio [RR], 5.87; 95% confidence interval [CI], 1.49-23.15: p = .01), pos. **HCV** serol. (RR, 3.99; 95% CI, 1.32-12.10; p = .01), and older age (RR, 1.11; 95% CI, 1.04-1.18; p = 0.001). Nearly 10% of study subjects who start HAART experience severe transaminase elevation, irresp. of the treatment.

Avoidance of alc. abuse, especially in study subjects coinfected with **HCV**, will reduce the risk of hepatic injury after HAART. When possible, prior treatment for chronic **HCV** infection should be considered.

IT 3056-17-5, Stavudine

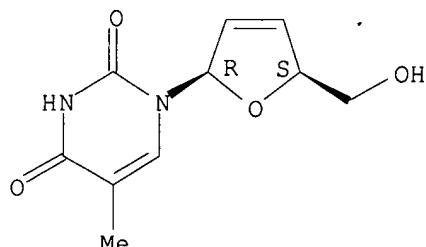
RL: ADV (Adverse effect, including toxicity); THU (**Therapeutic use**); BIOL (Biological study); USES (Uses)

(highly active antiretroviral therapy and risk factors for severe hepatic injury in HIV-infected humans)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
<hr/>					
Aids Clinical Trials Gr	1996			Table of grading sev	
Alonso, M	2000	115	481	Med Clin (Barc)	
Barreiro, P	2000	14	807	AIDS	HCAPLUS
Benhamou, Y	1996	125	705	Ann Intern Med	HCAPLUS
Brau, N	1997	349	924	Lancet	MEDLINE
Cahn, P	2000			[abstract PL8.6] 5th	
Den Brinker, M	2000	14	2895	AIDS	HCAPLUS
Fortgang, I	1995	90	1433	Am J Gastroenterol	MEDLINE
Freiman, J	1993	7	379	AIDS	MEDLINE
Gavazzi, G	2000	16	1021	AIDS Res Hum Retrovi	HCAPLUS
John, M	1998	12	2289	AIDS	HCAPLUS
Kew, L	1991	115	283	Ann Intern Med	
Landau, A	2000	14	839	AIDS	HCAPLUS
Martinez, E	2000			[abstract PL8.5] 5th	
Morsica, G	2000	14	1656	AIDS	HCAPLUS
Moyle, G	1999	8	473	Exp Opin Invest Drug	HCAPLUS
Murphy, R	1996	5	1183	Exp Opin Invest Drug	HCAPLUS
Perez-Olmeda, M	1999	22	308	J Acquir Immune Defi	HCAPLUS
Pezzotti, P	2000			[abstract TuPpB1161]	
Piroth, L	2000	34	534	Ann Pharmacother	MEDLINE
Rodriguez-Rosado, R	1998	12	1256	AIDS	MEDLINE
Sanne, I	2000			[abstract PL9.3] 5th	
Sauleda, S	2000		A751	Hepatology	
Saves, M	1999	13	F115	AIDS	HCAPLUS
Saves, M	2000	44	3451	Antimicrob Agents Ch	HCAPLUS
Sulkowski, M	2000	283	74	JAMA	HCAPLUS
Torriani, F	2000	2	168	AIDS Rev	

L37 ANSWER 32 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:617821 HCAPLUS

DN 135:175348

TI Use of N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compounds for treating hepatitis virus infections

IN Mueller, Richard A.; Bryant, Martin L.

PA Pharmacia Corporation, USA

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

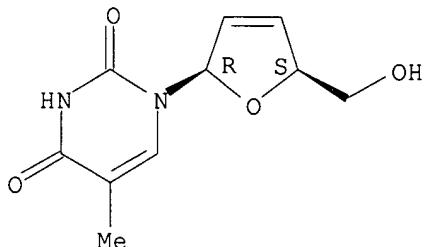
DT Patent

LA English

FAN.CNT 1

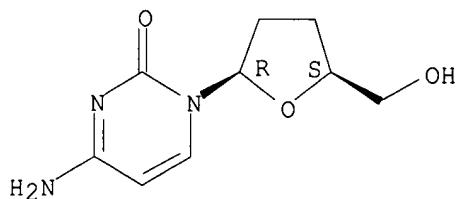
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001060366	A1	20010823	WO 2001-US4512	20010213 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001036938	A5	20010827	AU 2001-36938	20010213 <--
EP 1261339	A1	20021204	EP 2001-909153	20010213 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003522791	T2	20030729	JP 2001-559463	20010213 <--
US 2005119310	A1	20050602	US 2002-203769	20010213 <--
PRAI US 2000-182362P	P	20000214 <--		
WO 2001-US4512	W	20010213 <--		
AB Provided are methods and compns. for treating hepatitis virus infections in mammals, especially humans. The methods comprise (1) administering N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compds. alone or in combination with nucleoside antiviral agents, nucleotide antiviral agents, mixts. thereof, or immunomodulating/immunostimulating agents, or (2) administering N-substituted-1,5-dideoxy-1,5-imino-D-glucitol compds. alone or in combination with nucleoside antiviral agents, nucleotide antiviral agents, or mixts. thereof, and immunomodulating/immuno stimulating agents.				
IT 3056-17-5, Stavudine 7481-89-2, Dideoxycytidine 121154-51-6 147058-39-7				
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (treatment of hepatitis B and C virus infections with dideoxyiminoglucitols and antiviral nucleosides and nucleotides)				
RN 3056-17-5 HCPLUS				
CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS
CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

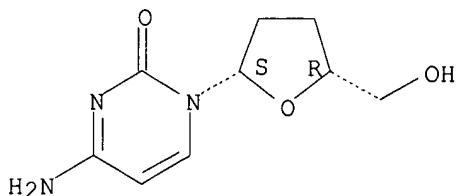
Absolute stereochemistry. Rotation (+).



RN 121154-51-6 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

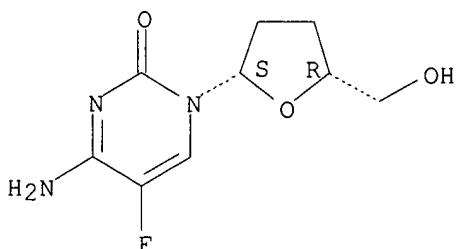
Absolute stereochemistry. Rotation (-).



RN 147058-39-7 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Block, T	1998	4	610	NATURE MEDICINE	HCAPLUS
Block, T	1994	91	2235	PROCEEDINGS OF THE N	HCAPLUS
Dwek, R	1998			WO 9835685 A	HCAPLUS
Mueller, R	1999			WO 9940916 A	HCAPLUS
Mueller, R	2000			WO 0047198 A	HCAPLUS
Platt, F	1994		106	CHEMTRACTS ORGANIC C	
Searle & Co	1995			WO 9519172 A	HCAPLUS
Zitzmann, N	1999			WO 9929321 A	HCAPLUS
Zitzmann, N	1999	96	11878	PROCEEDINGS OF THE N	HCAPLUS

L37 ANSWER 33 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:617773 HCAPLUS

DN 135:175346

TI Method for the treatment or prevention of flavivirus infections using

IN nucleoside analogues
 IN Ismaili, Hicham Moulay Alaoui; Cheng, Yun-Xing; Lavallee, Jean-Francois;
 Siddiqui, Arshad; Storer, Richard
 PA Biochem Pharma Inc., Can.
 SO PCT Int. Appl., 51 pp.
 CODEN: PIXXD2

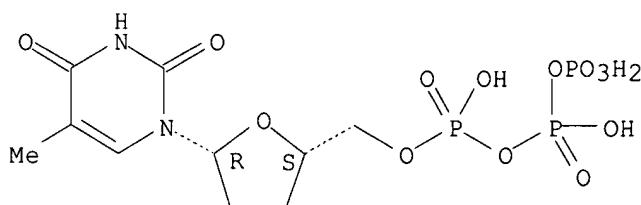
DT Patent

LA English

FAN.CNT 1

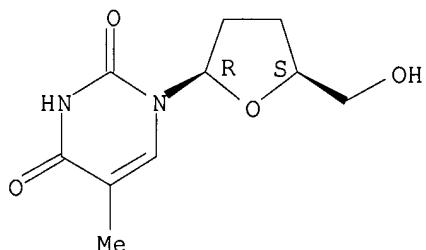
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001060315	A2	20010823	WO 2001-CA197	20010219 <--
	WO 2001060315	A3	20030116		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2400274	AA	20010823	CA 2001-2400274	20010219 <--
	AU 2001035278	A5	20010827	AU 2001-35278	20010219 <--
	EP 1296690	A2	20030402	EP 2001-907276	20010219 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2003523978	T2	20030812	JP 2001-559414	20010219 <--
	NZ 521210	A	20041126	NZ 2001-521210	20010219 <--
	US 2002019363	A1	20020214	US 2001-785235	20010220 <--
	US 6784161	B2	20040831		
	ZA 2002006506	A	20031114	ZA 2002-6506	20020814 <--
	NO 2002003884	A	20021017	NO 2002-3884	20020816 <--
	US 2004248844	A1	20041209	US 2004-887292	20040709 <--
PRAI	US 2000-183349P	P	20000218	<--	
	WO 2001-CA197	W	20010219	<--	
	US 2001-785235	A1	20010220	<--	
OS	MARPAT 135:175346				
AB	The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogs in a host comprising administering a therapeutically effective amount of the nucleoside analog or a pharmaceutically acceptable salt thereof.				
IT	611-60-9, 3'-Deoxythymidine-5'-triphosphate 3416-05-5, 3'-Deoxythymidine RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))				
RN	611-60-9 HCPLUS				
CN	Thymidine 5'-(tetrahydrogen triphosphate), 3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry.



RN 3416-05-5 HCPLUS
 CN Thymidine, 3'-deoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 9026-28-2, RNA-dependent RNA polymerase

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))

RN 9026-28-2 HCPLUS

CN Nucleotidyltransferase, ribonucleate, RNA-dependent (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L37 ANSWER 34 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2001:166174 HCPLUS

DN 134:347992

TI Hepatitis B or hepatitis C virus

infection is a risk factor for severe hepatic cytolysis after initiation of a protease inhibitor-containing antiretroviral regimen in human immunodeficiency virus-infected patients

AU Saves, Marianne; Raffi, Francois; Clevenbergh, Philippe; Marchou, Bruno; Waldner-Combernon, Anne; Morlat, Philippe; Le Moing, Vincent; Riviere, Catherine; Chene, Genevieve; Leport, Catherine; Leport, C.; Raffi, F.; Chene, G.; Salamon, R.; Moatti, J.-P.; Pierret, J.; Brun-Vezinet, F.; Fleury, H.; Peytavin, G.; Costagliola, D.; Dellamonica, P.; Katlama, C.; Meyer, L.; Morin, M.; Sicard, D.; Sobel, A.; Vincent-Ballereau, F.; Dupon, M.; Le Moing, V.; Marchou, B.; May, T.; Morlat, P.; Waldner-Combernon, A.; Agid, F.; Bourdillon, F.; Delfraissy, J.-F.; Dormont, J.; Lacut, J.-Y.; Souteyrand, Y.; Vilde, J.-L.; Cailleton, V.; Carricaburu, D.; Deveaud, C.; Dupouy, G.; Dutoit, S.; Ecobichon, J.-L.; Egouy, C.; Jadand, C.; Joly, P.; Journot, V.; Lawson-Ayayi, S.; Lewden, C.; Masquelier, B.; Nouioua, W.; Palmer, G.; Saves, M.; Souville, M.; Chauvin, J. P.; Delavelle, D.; Dohin, E.; Gallet, B.; Gervais, M.-C.; Lapierre, D.; Schmit, J. L.; Chennebault, J.-M.; Faller, J.-P.; Estavoyer, J.-M.;

Laurent, R.; Vuitton, D.; Beylot, J.; Lacut, J.-Y.; Le Bras, M.; Ragnaud, J.-M.; Granier, P.; Garre, M.; Bazin, C.; Veyssier, P.; Devidas, A.; Sobel, A.; Portier, H.; Perronne, C.; Lagarde, P.; Ceccaldi, J.; Peyramond, D.; Allard, C.; Reynes, J.; Canton, P.; Raffi, F.; Cassuto, J.-P.; Dellamonica, P.; Arsac, P.; Bricaire, F.; Caulin, C.; Frottier, J.; Herson, S.; Imbert, J.-C.; Malkin, J.-E.; Rozenbaum, W.; Sicard, D.; Vachon, F.; Vilde, J.-L.; Becq-Giraudon, B.; Remy, G.; Cartier, F.; Lucht, F.; Roue, R.; Lang, J.-M.; Jaubert, D.; Massip, P.; Choutet, P.

CS INSERM Unite 330, Bordeaux, 33076, Fr.

SO Antimicrobial Agents and Chemotherapy (2000), 44(12), 3451-3455
CODEN: AMACQ; ISSN: 0066-4804

PB American Society for Microbiology

DT Journal

LA English

AB In a cohort of 1,047 human immunodeficiency virus type 1-infected patients started on protease inhibitors (PIs), the incidence of severe hepatic cytolysis (alanine aminotransferase concentration five times or more above the upper limit of the normal level $\geq 5N$) was 5% patient-years after a mean follow-up of 5 mo. Only positivity for **hepatitis C virus** antibodies (hazard ratio [HR], 7.95; $P < 10^{-3}$) or **hepatitis B** virus surface antigen (HR, 6.67; $P < 10^{-3}$) was associated with severe cytolysis. Before starting patients on PIs, assessment of liver enzyme levels and viral coinfections is necessary.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

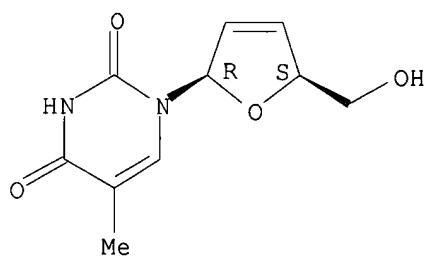
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(**hepatitis B** or **C** virus infection as risk for severe hepatic cytolysis after initiation of protease inhibitor-containing antiretroviral regimen in HIV infection)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

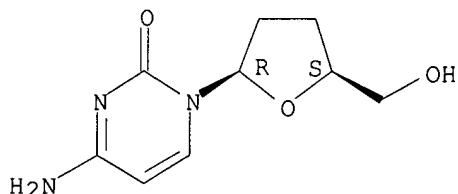
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Arribas, J	1998	12	1722	AIDS	MEDLINE
Brau, N	1997	349	924	Lancet	MEDLINE
Cameron, D	1998	351	1543	Lancet	HCAPLUS
Carr, A	1997	349	995	Lancet	MEDLINE
Collier, A	1996	334	1011	N Engl J Med	HCAPLUS
Division of AIDS, National Institute of Health	1996			Division of AIDS tab	
Gulick, R	1997	337	734	N Engl J Med	HCAPLUS
Hammer, S	1997	337	725	N Engl J Med	HCAPLUS
Havlir, D	1998	339	1261	N Engl J Med	HCAPLUS
Jeurissen, F	1998	12	1441	AIDS	MEDLINE
John, M	1998	12	12289	AIDS	HCAPLUS
Karch, F	1977	21	247	Clin Pharmacol Ther	MEDLINE
Matsuda, J	1997	350	364	Lancet	MEDLINE
Nelson, D	1997	158	1473	J Immunol	HCAPLUS
Pialoux, G	1998	339	1269	N Engl J Med	HCAPLUS
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
USPHS/IDSA Prevention of Opportunistic Infection	2000	30	S29	Clin Infect Dis	
Vento, S	1998	12	116	AIDS	MEDLINE
Vergis, E	1998	9	53	Int J Sex Transm Dis	MEDLINE
Zylberberg, H	1998	26	1104	Clin Infect Dis	MEDLINE
Zylberberg, H	1998	27	1255	Clin Infect Dis	MEDLINE

L37 ANSWER 35 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2001:100967 HCAPLUS

DN 134:141721

TI N-Substituted glucamine compounds for treating **hepatitis** virus infections

IN Mueller, Richard A.; Bryant, Martin L.; Partis, Richard A.

PA G.D. Searle and Co., USA

SO PCT Int. Appl., 148 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001008672	A2	20010208	WO 2000-US3816	20000214 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2362785	AA	20010208	CA 2000-2362785	20000214 <--
	EP 1173161	A2	20020123	EP 2000-917640	20000214 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, FE, SI, LT, LV, FI, RO				
	US 6515028	B1	20030204	US 2000-503865	20000214 <--
	JP 2003505501	T2	20030212	JP 2001-513402	20000214 <--
	US 2003195229	A1	20031016	US 2002-322045	20021217 <--
	US 6747149	B2	20040608		
PRAI	US 1999-119836P	P	19990212	<--	
	US 1999-119858P	P	19990212	<--	

US 2000-503865 A1 20000214 <--
 WO 2000-US3816 W 20000214 <--

OS MARPAT 134:141721

AB N-Substituted glucamine compds. (Markush included) are effective in treatment of **hepatitis** infections, including **hepatitis** B and **hepatitis** C. In treating **hepatitis** infections, the compds. of the invention may be used alone or in combination with another antiviral agent selected from nucleosides, nucleotides, immunomodulators, immunostimulants, or various combinations of such other agents. Preparation of e.g. 1,5-(butylimino)-1,5-dideoxy-D-glucitol tetraacetate is described.

IT 3056-17-5, Stavudine 7481-89-2, Dideoxycytidine

147058-39-7

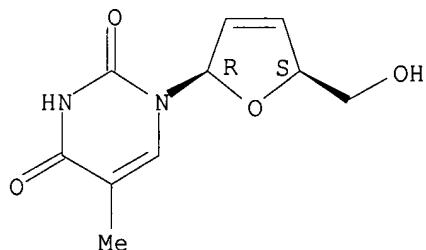
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(N-substituted glucamine compds. for treating **hepatitis** virus infections, and use with other agents)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

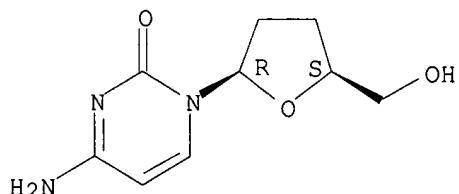
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

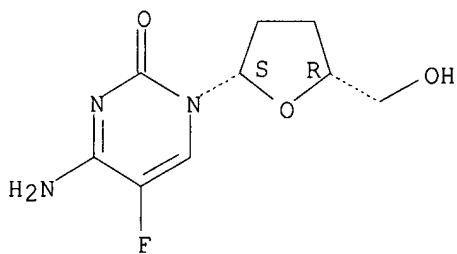
Absolute stereochemistry. Rotation (+).



RN 147058-39-7 HCPLUS

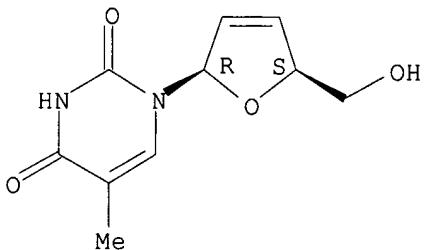
CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L37 ANSWER 36 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:90894 HCAPLUS
 DN 135:313173
 TI Increased mitochondrial toxicity with ribavirin in HIV/HCV coinfection
 AU Lafeuillade, A.; Hittinger, G.; Chadapaud, S.
 CS Department of Infectious Diseases, Hospital Chalucet, Toulon, 83056, Fr.
 SO Lancet (2001), 357(9252), 280-281
 CODEN: LANCAO; ISSN: 0140-6736
 PB Lancet Ltd.
 DT Journal
 LA English
 AB In two of 15 patients coinfecte with HIV and hepatitis C virus who received interferon- α plus ribavirin in addition to HAART, we observed multiorgan dysfunction and lactic acidemia. As ribavirin is a nucleoside analog, an increased risk of mitochondrial toxicity can be induced in HIV-infected patients already treated with nucleoside analogs, leading to clin. deterioration in some cases.
 IT 3056-17-5, Stavudine
 RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (increased mitochondrial toxicity with ribavirin in HIV/HCV coinfection)
 RN 3056-17-5 HCAPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



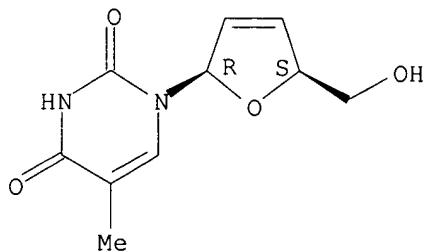
RETABLE

Referenced Author (RAU)	Year VOL PG Referenced Work (R PY) (R VL) (R PG) (R WK)	Referenced File HCAPLUS
Brinkman, K	1999 354 1112 Lancet	
Carr, A	2000 14 F25 AIDS	
Kochhar, D	1980 52 99 Toxicol Appl Pharmacol	
McKenzie, R	1995 333 1099 N Engl J Med	

Weiss, R |1993 |16 |301 |J Vet Pharmacol Ther|HCAPLUS

L37 ANSWER 37 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2001:60217 HCAPLUS
 DN 135:116588
 TI **Hepatitis B** and **C** virus co-infection and the risk for hepatotoxicity of highly active antiretroviral therapy in HIV-1 infection
 AU den Brinker, Marieke; Wit, Ferdinand W. N. M.; Wertheim-van Dillen, Pauline M. E.; Jurriaans, Suzanne; Weel, Jan; van Leeuwen, Remko; Pakker, Nadine G.; Reiss, Peter; Danner, Sven A.; Weverling, Gerrit Jan; Lange, Joep M. A.
 CS Department of Internal Medicine, National AIDS Therapy Evaluation Center (NATEC), Amsterdam, 1105 AZ, Neth.
 SO AIDS (London) (2000), 14(18), 2895-2898
 CODEN: AIDSET; ISSN: 0269-9370
 PB Lippincott Williams & Wilkins
 DT Journal
 LA English
 AB The objective was to investigate the risk of hepatotoxicity after initiation of protease inhibitor-containing highly active antiretroviral therapy (HAART) for HIV-1 infected patients with chronic **hepatitis B** virus (HBV) or **hepatitis C** virus (HCV) co-infection. Design: Retrospective study with 394 HIV-1-infected patients initiating HAART at a single university clinic. Methods: Liver enzyme elevation (LEE) was defined as alanine aminotransferase or aspartate aminotransferase at least five times the upper limit of normal and an absolute increase of > 100 U/l. Relative risks for time to LEE were estimated using Cox proportional hazards models. Results: Of 394 patients 7% were **hepatitis B** surface antigen (HBsAg)-pos. and 14% were anti-HCV-pos. Patients with chronic **hepatitis** had a higher risk for LEE compared with patients without co-infection: 37% vs. 12% resp. After adjustment for higher baseline transaminases, the presence of HBsAg or anti-HCV remained associated with an increased risk of LEE - relative risk 2.78 (95% confidence interval, 1.50-5.16) and 2.46 (95% confidence interval, 1.43-4.24) resp. In patients with LEE, transaminases declined whether HAART was continued or modified. Of patients with chronic HBV infection 38% lost HBeAg or developed anti-HBe after initiation of HAART, and one seroconverted from HBsAg-pos. to anti-HBs-pos. However, there was no clear relationship with LEE. Conclusions: HIV-1-infected patients co-infected with HBV or HCV were at considerably higher risk of developing LEE when HAART was initiated compared with patients without co-infection, but it is usually not necessary to modify antiretroviral therapy.
 IT 3056-17-5, Stavudine
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (hepatitis B and C virus co-infection and risk for hepatotoxicity of highly active antiretroviral therapy in HIV-1 infected human patients)
 RN 3056-17-5 HCAPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



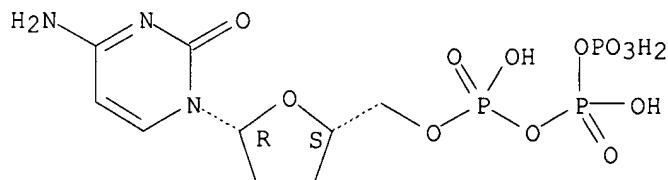
L37 ANSWER 38 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:867640 HCPLUS
 DN 135:40476
 TI The hepatitis C virus NS5B RNA-dependent RNA polymerase activity and susceptibility to inhibitors is modulated by metal cations
 AU Alaoui-Ismaili, Moulay Hicham; Hamel, Martine; L'Heureux, Lucille; Nicolas, Olivier; Bilmoria, Darius; Labonte, Patrick; Mounir, Samir; Rando, Robert F.
 CS BioChem Pharma Inc., Laval, QC, H7V 4A7, Can.
 SO Journal of Human Virology (2000), 3(6), 306-316
 CODEN: JHVIFC; ISSN: 1090-9508
 PB Lippincott Williams & Wilkins
 DT Journal
 LA English
 AB Objectives: The aim of this study was to understand the effect of metal cations on the hepatitis C virus (HCV) NS5B in vitro RNA-dependent RNA polymerase (RdRp) activity and its susceptibility to various inhibitors. Methods: A recombinant full-length HCV NS5B protein was expressed in insect cells and purified to homogeneity. RdRp activity was assessed using standard filtration or polyacrylamide gel-based assays. Results: Efficient inhibition of the HCV NS5B RdRp activity by glibenclamide, as well as by various substrate analogs, occurs in the presence of Mn²⁺, but not of Mg²⁺. Assays performed in the presence of both cofactors suggest that, in vitro, the enzyme's affinity for Mn²⁺ is higher than that for Mg²⁺. In addition, the RdRp activity, displayed in the presence of heteropolymeric templates, is significantly increased when the metal cofactor consists of Mn²⁺. Finally, steady state kinetics showed that the velocity of the reaction, as well as the affinity of the enzyme for its substrate, could both be affected by the nature of the divalent metal cation used.
 IT 9026-28-2, RNA-dependent RNA polymerase
 RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (NS5B; hepatitis C virus NS5B RNA-dependent RNA polymerase activity and susceptibility to inhibitors is modulated by metal cations in vitro)
 RN 9026-28-2 HCPLUS
 CN Nucleotidyltransferase, ribonucleate, RNA-dependent (9CI) (CA INDEX NAME)
 *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 IT 66004-77-1, 2'-3' Dideoxycytidine triphosphate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(hepatitis C virus NS5B RNA-dependent RNA polymerase activity and susceptibility to inhibitors is modulated by metal cations in vitro)

RN 66004-77-1 HCPLUS

CN Cytidine 5'-(tetrahydrogen triphosphate), 2',3'-dideoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File (HCPLUS)
Al, R	1998	53	141	Virus Res	HCPLUS
Beese, L	1991	10	25	EMBO J	HCPLUS
Behrens, S	1996	15	12	EMBO J	HCPLUS
Bressanelli, S	1999	96	13034	Proc Natl Acad Sci	HCPLUS
Choo, Q	1989	244	359	Science	HCPLUS
Clarke, B	1997	78	2397	J Gen Virol	HCPLUS
Ferrari, E	1999	73	1649	J Virol	HCPLUS
Harlow, E	1998			Antibodies: a labora	
Hideo, A	1999	7	1417	Structure	
Ishii, K	1999	29	1227	Hepatology	HCPLUS
Johnson, R	2000	377	129	Arch Biochem Biophys	HCPLUS
Joyce, M	1997	94	1619	Proc Natl Acad Sci	
Koonin, E	1991	72	2197	J Gen Virol	
Lesburg, C	1999	10	937	Nat Struct Biol	
Lohmann, V	1997	71	8416	J Virol	HCPLUS
Lohmann, V	1998	249	108	Virology	HCPLUS
Luo, G	2000	74	851	J Virol	HCPLUS
Miller, P	1969	159	431	Science	
Murphy, F	1995		424	Sixth report of the	
Oh, J	1999	73	7694	J Virol	HCPLUS
O'Reilly, E	1998	252	287	Virology	HCPLUS
Rodriguez, P	1992	66	1971	J Virol	HCPLUS
Saito, I	1990	87	6547	Proc Natl Acad Sci	HCPLUS
Steitz, T	1998	391	231	Nature	HCPLUS
Sun, X	2000	268	798	Biochem Biophys Res	HCPLUS
Tabor, S	1989	86	4076	Proc Natl Acad Sci	HCPLUS
Tomei, L	2000	81	759	J Gen Virol	HCPLUS
Tomei, L	1993	67	4017	J Virol	HCPLUS
Trown, P	1972	2	261	Antimicrob Agents Ch	HCPLUS
Yamashita, T	1998	273	15479	J Biol Chem	HCPLUS
Yuan, Z	1997	232	231	Biochem Biophys Res	HCPLUS
Zhong, W	2000	74	2017	J Virol	HCPLUS

L37 ANSWER 39 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2000:840382 HCPLUS

DN 135:40464

TI Safety and efficacy of interferon-ribavirin combination therapy in HCV-HIV coinfecte subjects: An early report

AU Zylberberg, H.; Benhamou, Y.; Lagneaux, J. L.; Landau, A.; Chaix, M. -L.; Fontaine, H.; Bochet, M.; Poynard, T.; Katlama, C.; Pialoux, G.; Brechot, C.; Pol, S.

CS Unite d'Hépatologie, INSERM U370, Unite d'Hépatologie, INSERM U370, CHU Necker, Paris, Fr.

SO Gut (2000), 47(5), 694-697
CODEN: GUTTAK; ISSN: 0017-5749

PB BMJ Publishing Group

DT Journal

LA English

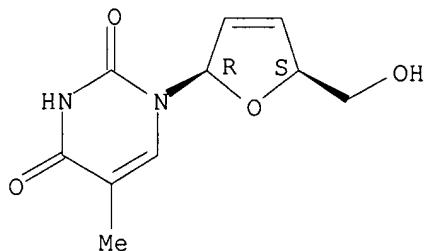
AB More severe liver disease together with a poor response rate to α interferon argue for the use of more potent anti-**hepatitis C virus (HCV)** therapies in human immunodeficiency virus (HIV)-HCV coinfecting patients, but the efficacy and safety of interferon-ribavirin combination therapy in HIV infected subjects are unknown. Aim of this study was to retrospectively evaluate the efficacy and safety of anti-HCV combination therapy in 21 HCV-HIV coinfecting patients receiving antiretroviral therapy, and to access the clin. relevance of in vitro inhibition of phosphorylation by ribavirin of potent inhibitors of HIV-i.e., zidovudine, stavudine, and zalcitabine. Twenty one patients were treated with combined antiretroviral therapy including zidovudine (n=8) or stavudine (n=13) (in association with protease inhibitors in 12). All received ribavirin (1000 or 1200 mg/day) and α interferon (3 MU three times/wk) for chronic **hepatitis C** infection. All patients had not responded (n=20) or relapsed (n=1) after a previous six month course of α interferon therapy. HIV viral load (Monitor test) and CD4 cells count were measured at the beginning and every three months during and after ribavirin plus α interferon therapy over a mean period of 11 (1) months. Clin. and biol. adverse effects were recorded. There was no significant variation in HIV viral load or CD4 cell counts after three or six months of ribavirin therapy compared with baseline values. Of the 21 subjects, three (14%) had an increase in HIV viral load of more than 0.5 log leading to discontinuation of ribavirin in one. Eleven of 21 (52.4%) and initial neg. HCV viremia at three (n=10) or six (n=1) months but only six were **polymerase chain reaction** neg. at the end of therapy, leading to rates for primary response and breakthrough of 23.8% and 28.5%, resp. Six months after completion of therapy, three patients relapsed (14.3%) and three (14.3%) had sustained virol. response. Median Hb concentration decreased significantly after three and six months of ribavirin therapy ($p=0.0002$ and $p=0.0003$, resp.) leading to withdrawal of therapy in one patient. These preliminary results show that: (1) despite in vitro interactions between ribavirin, zidovudine, and stavudine, significant variation in HIV replication does not usually occur in HCV-HIV coinfecting patients receiving ribavirin and different antiretroviral regimens, including zidovudine and stavudine; (2) α interferon and ribavirin combination therapy induced primary and sustained virol. responses in 28.5% and 14.3% of treated subjects (who were previous non-responders to interferon therapy), resp.; (3) anemia is a frequent adverse event. Such results should be confirmed in larger prospective trials.

IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine
RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interferon- α and ribavirin combination therapy in humans
coinfecting with **hepatitis C virus** and
HIV)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

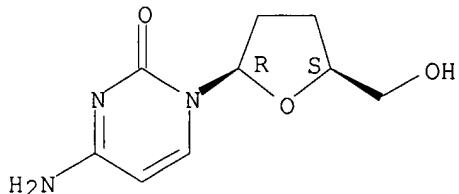
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCAPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Baba, M	1987	31	1613	Antimicrob Agents Ch	H CAPLUS
Darby, S	1997	350	1425	Lancet	MEDLINE
Davis, G	1998	339	1493	N Engl J Med	H CAPLUS
Hoggard, P	1997	41	1231	Antimicrob Agents Ch	H CAPLUS
Mc Hutchinson, J	1998	339	1485	N Engl J Med	
Pol, S	1998	28	945	J Hepatol	H CAPLUS
Pol, S	1999	31	1	J Hepatol	H CAPLUS
Poynard, T	1998	352	1426	Lancet	H CAPLUS
Reichard, O	1998	351	183	Lancet	H CAPLUS
Roberts, R	1990	4	167	AIDS	MEDLINE
Spanish Ribavirin Trial	1991	338	16	Lancet	
Vogt, M	1987	235	1376	Science	H CAPLUS
Zylberberg, H	1996	23	1117	Clin Infect Dis	MEDLINE

L37 ANSWER 40 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:672955 HCAPLUS

DN 134:187861

TI Lack of interference between ribavirin and nucleosidic analogues in HIV/
HCV co-infected individuals undergoing concomitant antiretroviral
and anti-HCV combination therapy

AU Landau, Alain; Batisse, Dominique; Piketty, Christophe; Jian, Raymond;
Kazatchkine, Michel D.

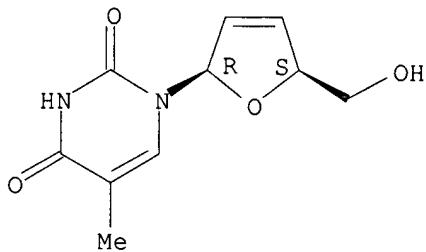
CS Service d'Hepatologie et de Gastro-Enterologie and Service d'Immunologie
Clinique, Hopital Europeen Georges Pompidou, Universite Pierre et Marie
Curie, Paris, Fr.

SO AIDS (London) (2000), 14(12), 1857-1858

CODEN: AIDSET; ISSN: 0269-9370

PB Lippincott Williams & Wilkins
 DT Journal
 LA English
 AB Changes in plasma HIV-RNA levels were examined during and after combination therapy with interferon- α (IFN) and ribavirin in 38 HIV/hepatitis C virus (HCV) coinfected patients. Nineteen of these patients had been treated with a combination of 2 nucleosidic analogs, stavudine and lamivudine or zidovudine and lamivudine for a mean duration of 20+/- 10 mo before the initiation of IFN and ribavirin. The remaining 19 patients had been treated with a triple combination antiretroviral regimen including a protease inhibitor with stavudine and lamivudine for 24 +/- 8 mo.. The mean plasma HIV-RNA levels did not differ between baseline (preadministration), at discontinuation of drug administration, and at 6 mo postadministration of IFN and ribavirin. The absolute number of CD4 cells decreased significantly during IFN treatment and returned to baseline values thereafter, suggesting that CD4 cells are trapped in extravascular sites during therapy with IFN. These results strongly argue against the in vivo relevance of the in vitro competition between ribavirin, stavudine, and zidovudine for intracellular phosphorylation. Ribavirin may thus be initiated in HIV/HCV coinfected patients receiving zidovudine or stavudine without switching reverse transcriptase inhibitors.
 IT 3056-17-5, Stavudine
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (lack of interference between ribavirin and nucleosidic analogs in HIV/HCV co-infected individuals undergoing concomitant antiretroviral and anti-HCV combination therapy)
 RN 3056-17-5 HCPLUS
 CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

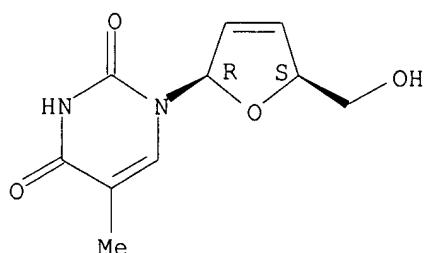
Referenced Author (RAU)	Year VOL PG	Referenced Work (R PY) (R VL) (R PG)	Referenced (RWK)	Referenced File
Benhamou, Y	1999 30 1054	Hepatology		MEDLINE
Darby, S	1997 350 1425	Lancet		MEDLINE
Ernststoff, M	1984 76 593	Am J Med		MEDLINE
Hoggard, P	1997 41 1231	Antimicrob Agents Ch	HCPLUS	
Landau, A	2000 14 1839	AIDS		HCPLUS
Poynard, T	1998 352 1426	Lancet		HCPLUS
Soriano, V	1999 13 539	AIDS		MEDLINE
Zylberberg, H	1996 23 1117	Clin Infect Dis		MEDLINE

L37 ANSWER 41 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 2000:573657 HCAPLUS
 DN 133:172150
 TI Use of substituted-1,5-dideoxy-1,5-imino-D-glucitol compounds for treating hepatitis virus infections
 IN Mueller, Richard A.; Bryant, Martin L.; Partis, Richard A.
 PA G.D. Searle and Co., USA
 SO PCT Int. Appl., 170 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

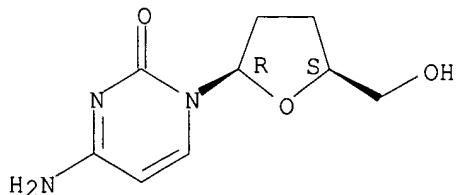
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000047198	A2	20000817	WO 2000-US3768	20000214 <--
	WO 2000047198	A3	20010215		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2362914	AA	20000817	CA 2000-2362914	20000214 <--
	EP 1165080	A2	20020102	EP 2000-914585	20000214 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002536407	T2	20021029	JP 2000-598151	20000214 <--
	US 6545021	B1	20030408	US 2000-503945	20000214 <--
	EP 1658846	A1	20060524	EP 2005-27240	20000214 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	US 2003220299	A1	20031127	US 2003-341717	20030114 <--
PRAI	US 1999-119722P	P	19990212	<--	
	US 1999-119856P	P	19990212	<--	
	EP 2000-914585	A3	20000214	<--	
	US 2000-503945	A1	20000214	<--	
	WO 2000-US3768	W	20000214	<--	
OS	MARPAT 133:172150				
AB	N-Substituted-1,5-dideoxy-1,5-imino-D-glucitol compds. are effective in treatment of hepatitis infections, including hepatitis B and hepatitis C. In treating hepatitis infections, the tittle compds. may be used alone, or in combination with another antiviral agent selected from among nucleosides, nucleotides, immunomodulators, immunostimulants or various combinations of such other agents.				
IT	3056-17-5, Stavudine 7481-89-2, Dideoxycytidine 147058-39-7				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)				
	(use of substituted dideoxyimino-D-glucitol compds. for treating hepatitis virus infections and combination with other antiviral agents or immunostimulants)				
RN	3056-17-5 HCAPLUS				
CN	Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (-).



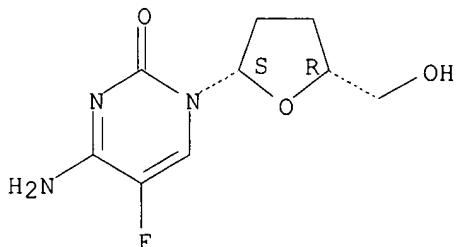
RN 7481-89-2 HCAPLUS
 CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 147058-39-7 HCAPLUS
 CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(2S,5R)-tetrahydro-5-(hydroxymethyl)-2-furanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L37 ANSWER 42 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2000:443717 HCAPLUS
 DN 133:37763
 TI Can HCV affect the efficacy of anti-HIV treatment?
 AU Filippini, P.; Coppola, N.; Scolastico, C.; Liorre, G.; Nocera, R.; Sagnelli, E.; Piccinino, F.
 CS Institute of Infectious Diseases, School of Medicine, Second University of Naples, Naples, Italy
 SO Archives of Virology (2000), 145(5), 937-944
 CODEN: ARVIDF; ISSN: 0304-8608
 PB Springer-Verlag Wien
 DT Journal
 LA English
 AB To evaluate the impact of new antiretroviral combinations (HAART: Highly Active Anti Retroviral Therapy) on HCV replication and liver enzyme levels, we analyzed the changes in HCV viremia and

aminotransferase levels in HIV and HCV co-infected patients. Moreover, to evaluate the influence of HCV infection on the efficacy of HAART, we compared the virol., immunol. and biochem. response to antiretroviral combinations in anti-HIV pos. subjects with or without HCV infection. We enrolled eight consecutive outpatients with HIV-HCV coinfection and with indications for HAART (Group A). For each patient in group A, we selected an anti-HIV neg. patient with indications for HAART, pair-matched for age, sex, risk factor for HIV infection, presumed duration of infection, number of CD4 cells, HIV viremia and treatment schedule (Group B). A statistically significant increase in CD4 in both groups was found at 1st, 3rd and 6th month of antiretroviral therapy. A decrease in HIV-RNA in both groups was observed at 1st and 6th month of treatment. The percentage of patients with undetectable HIV-RNA at the 1st month was higher in Group B than in Group A (8/8 vs. 3/8, p = 0.025). Basal HCV-RNA viremia was very high in each case and no variations during treatment were observed. During therapy the aminotransferase levels slightly decreased in Group A and consistently increased in Group B. In Group A the differences were not significant to the statistical anal.; in Group B the aminotransferase levels at 3rd and 6th month were significantly higher than those observed at the baseline.

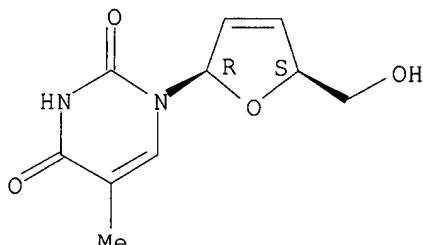
IT 3056-17-5, Stavudine 7481-89-2, Zalcitabine

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (can HCV affect efficacy of anti-HIV treatment)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

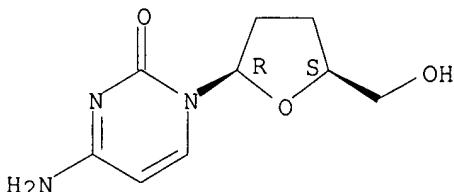
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year VOL PG Referenced Work (R PY) (R VL) (R PG) (R WK) Referenced File
BHIVA	1997 349 1086 Lancet

Battegay, M	1996	24	1961	Hepatology	MEDLINE
Brau, N	1997	349	1924	Lancet	MEDLINE
Carpenter, C	1997	277	1962	JAMA	MEDLINE
Chamot, E	1992	6	430	AIDS	MEDLINE
Collier, A	1996	334	1011	N Engl J Med	HCAPLUS
Cribier, B	1995	9	1131	AIDS	HCAPLUS
Eyster, M	1994	84	1020	Blood	MEDLINE
Eyster, M	1993	6	602	J Acquir Immune Defi	MEDLINE
Francisci, D	1995	11	123	Eur J Epidemiol	MEDLINE
Hammer, S	1997	333	725	N Engl J Med	
John, M	1998	12	2289	AIDS	HCAPLUS
Markowitz, M	1995	333	1534	N Engl J Med	HCAPLUS
Matzuda, J	1997	350	364	Lancet	
Pantaleo, G	1996	50	825	Ann Rev Microbiol	HCAPLUS
Picard, O	1998	129	670	Ann Intern Med	MEDLINE
Rosado, R	1998	28	434A	Hepatology Supply	
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
Sabin, A	1997	175	164	J Infect Dis	
Sherman, K	1993	31	2679	J Clin Microbiol	MEDLINE
Soto, B	1997	26	1	J Hepatol	MEDLINE
Spengler, U	1998	29	1023	J Hepatol	MEDLINE
Thomas, D	1996	174	690	J Infect Dis	MEDLINE
Wrigh, T	1994	20	1152	Hepatology	
Zylberberg, H	1998	26	1104	Clin Infect Dis	MEDLINE

L37 ANSWER 43 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:401851 HCAPLUS

DN 133:53685

TI Protein transduction system and methods of use thereof

IN Dowdy, Steven F.

PA Washington University, USA

SO PCT Int. Appl., 127 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000034308	A2	20000615	WO 1999-US29289	19991210 <--
	WO 2000034308	A3	20001019		
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2354044	AA	20000615	CA 1999-2354044	19991210 <--
	AU 2000021728	A1	20000626	AU 2000-21728	19991210 <--
	EP 1137664	A2	20011004	EP 1999-966101	19991210 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 2002531113	T2	20020924	JP 2000-586751	19991210 <--
OS	US 1998-111701P	P	19981210 <--		
	WO 1999-US29289	W	19991210 <--		
AB	The present invention provides a protein transduction system comprising one or more fusion proteins that includes a transduction domain and a				

cytotoxic domain. The cytotoxic domain is specifically activated in a cell exhibiting a unique characteristic. Further provided are protein transduction domains that provide enhanced transduction efficiency. The protein transduction system effectively kills or injures cells infected by one or a combination of different pathogens or cells exhibiting unique characteristics such as high levels of heavy metals, DNA damage or uncontrolled cell division.

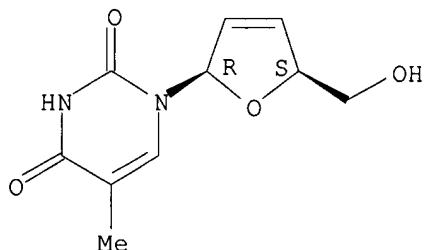
IT 3056-17-5, d4t 7481-89-2, Ddc

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(protein transduction system and methods of use thereof)

RN 3056-17-5 HCAPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

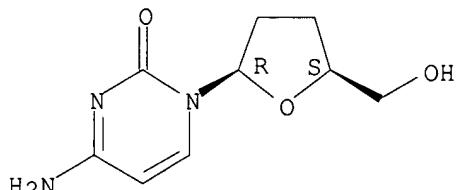
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCAPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 44 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:98300 HCAPLUS

DN 132:132356

TI Chemically induced intracellular hyperthermia for therapeutic and diagnostic use

IN Bachynsky, Nicholas; Roy, Woodie

PA Texas Pharmaceuticals, Inc., USA

SO PCT Int. Appl., 149 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000006143	A1	20000210	WO 1999-US16940	19990727 <--
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,				

JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
 MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
 TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
 MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
 ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
 CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2337690 AA 20000210 CA 1999-2337690 19990727 <--

AU 9951318 A1 20000221 AU 1999-51318 19990727 <--

AU 750313 B2 20020718

EP 1098641 A1 20010516 EP 1999-935949 19990727 <--

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO

PRAI US 1998-94286P P 19980727 <--

WO 1999-US16940 W 19990727 <--

AB Therapeutic pharmacol. agents and methods are disclosed for chemical induction of intracellular hyperthermia and/or free radicals for the diagnosis and treatment of infections, malignancy, and other medical conditions. A process and composition are provided for the diagnosis or killing of cancer cells and inactivation of susceptible bacterial, parasitic, fungal, and viral pathogens by chemical generating heat, and/or free radicals and/or hyperthermia-inducible immunogenic determinants by using mitochondrial uncoupling agents, especially 2,4-dinitrophenol, and their conjugates, either alone or in combination with other drugs, hormones, cytokines and radiation.

IT 3056-17-5 7481-89-2

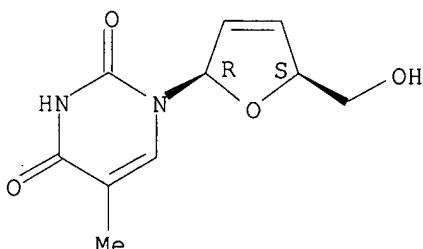
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(chemical induced intracellular hyperthermia for diagnostic and therapeutic use, and use with other agents)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

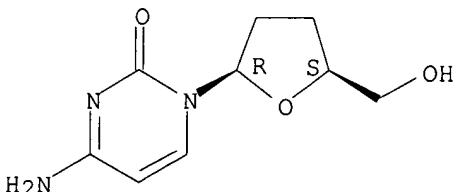
Absolute stereochemistry. Rotation (-).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

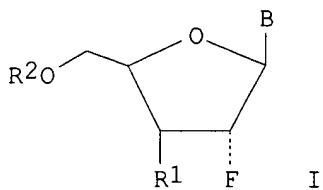


RETABLE

Referenced Author (RAU)	Year VOL PG	Referenced Work (RWK)	Referenced File
	(R PY) (R VL) (R PG)		
Gordon	1986	US 4569836 A	HCAPLUS
Gordon	1997	US 5622686 A	
Rubin	1991	US 5005588 A	

L37 ANSWER 45 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:566061 HCAPLUS
DN 131:170587
TI Preparation of 2'-fluoro nucleosides as antiviral agents
IN Schinazi, Raymond F.; Liotta, Dennis C.; Chu, Chung K.; Mcatee,
J. Jeffrey; Shi, Junxing; Choi, Yongseok; Lee, Kyeong; Hong,
Joon H.
PA Emory University, USA; The University of Georgia Research Foundation, Inc.
SO PCT Int. Appl., 109 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9943691	A1	19990902	WO 1999-US4051	19990225 <--
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2322008	AA	19990902	CA 1999-2322008	19990225 <--
	AU 9927871	A1	19990915	AU 1999-27871	19990225 <--
	EP 1058686	A1	20001213	EP 1999-908437	19990225 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, RO				
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	US 6348587	B1	20020219	US 1999-257130	19990225 <--
	BR 9908270	A	20040629	BR 1999-8270	19990225 <--
	US 2002198171	A1	20021226	US 2002-61128	20020130 <--
	US 6911424	B2	20050628		
	AU 2003244569	A1	20031002	AU 2003-244569	20030905 <--
	US 2004254141	A1	20041216	US 2004-796529	20040308 <--
PRAI	US 1998-75893P	P	19980225	<--	
	US 1998-80569P	P	19980403	<--	
	US 1999-257130	A1	19990225	<--	
	WO 1999-US4051	W	19990225	<--	
	US 2002-61128	A1	20020130	<--	
OS	MARPAT 131:170587				
GI					



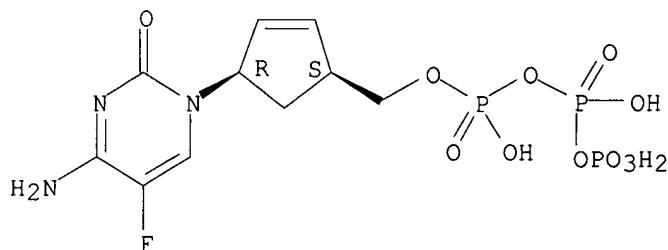
AB 2'-Fluoro nucleoside compds. I wherein R1 is OH, H, OR3, N3, CN, halogen, including F, or CF3, lower alkyl, amino, lower alkylamino, or alkoxy, and base refers to a purine or pyrimidine base; R2 is H, phosphate, including monophosphate, diphosphate, triphosphate, or a stabilized phosphate prodrug; acyl, or other pharmaceutically acceptable leaving group which when administered in vivo, is capable of providing a compound wherein R2 is H or phosphate; sulfonate ester including alkyl or arylalkyl sulfonyl including methanesulfonyl, benzyl, wherein the Ph group is optionally substituted with one or more substituents as described in the definition of aryl given above, a lipid, an amino acid, peptide, or cholesterol; and R3 is acyl, alkyl, phosphate, or other pharmaceutically acceptable leaving group which when administered in vivo, is capable of being cleaved to the parent compound, or a pharmaceutically acceptable salt thereof, are disclosed which are useful in the treatment of **hepatitis B** infection, **hepatitis C** infection, HIV and abnormal cellular proliferation, including tumors and cancer. Thus, 1-(2,3-dideoxy-2-fluoro- β -L-glycero-pent-2-eno-furanosyl)thymine was prepared and tested for its antiviral activity (EC50 > 100 μ M).

IT 221156-34-9P 222974-41-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of fluoro nucleosides as antiviral agents and proliferation inhibitors)

RN 221156-34-9 HCAPLUS

CN Triphosphoric acid, P-[(1R,4S)-4-(4-amino-5-fluoro-2-oxo-1(2H)-pyrimidinyl)-2-cyclopenten-1-yl]methyl] ester, rel- (9CI) (CA INDEX NAME)

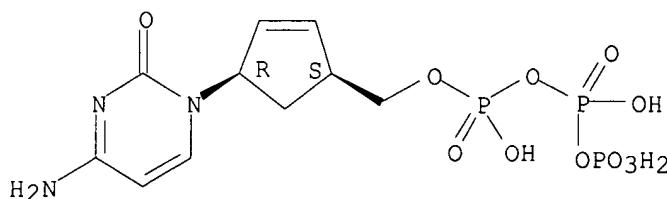
Relative stereochemistry.



RN 222974-41-6 HCAPLUS

CN Triphosphoric acid, P-[(1R,4S)-4-(4-amino-2-oxo-1(2H)-pyrimidinyl)-2-cyclopenten-1-yl]methyl] ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



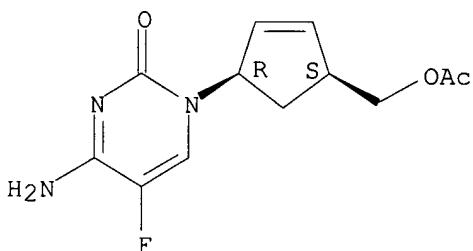
IT 221156-33-8P 221156-52-1P 221156-53-2P
 221156-54-3P 238747-51-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of fluoro nucleosides as antiviral agents and proliferation inhibitors)

RN 221156-33-8 HCAPLUS

CN 2(1H)-Pyrimidinone, 1-[(2R,4S)-4-[(acetyloxy)methyl]-2-cyclopenten-1-yl]-4-amino-5-fluoro-, rel- (9CI) (CA INDEX NAME)

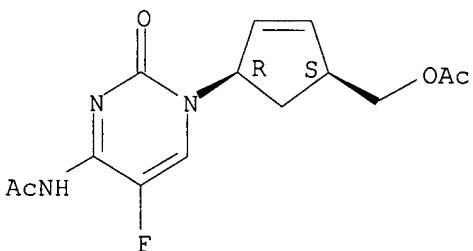
Relative stereochemistry.



RN 221156-52-1 HCAPLUS

CN Acetamide, N-[1-[(2R,4S)-4-[(acetyloxy)methyl]-2-cyclopenten-1-yl]-5-fluoro-1,2-dihydro-2-oxo-4-pyrimidinyl]-, rel- (9CI) (CA INDEX NAME)

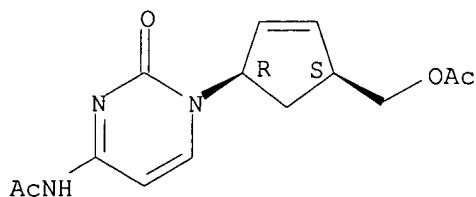
Relative stereochemistry.



RN 221156-53-2 HCAPLUS

CN Acetamide, N-[1-[(2R,4S)-4-[(acetyloxy)methyl]-2-cyclopenten-1-yl]-1,2-dihydro-2-oxo-4-pyrimidinyl]-, rel- (9CI) (CA INDEX NAME)

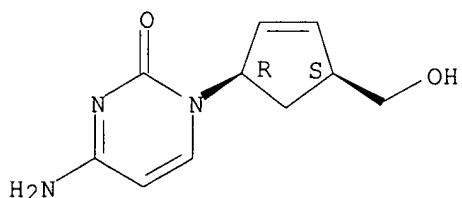
Relative stereochemistry.



RN 221156-54-3 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-1-[(2R,4S)-4-(hydroxymethyl)-2-cyclopenten-1-yl]-, rel- (9CI) (CA INDEX NAME)

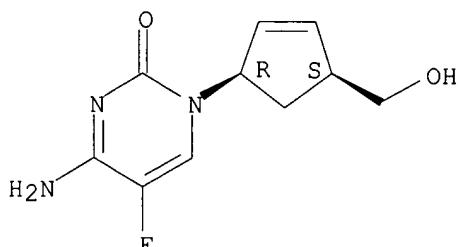
Relative stereochemistry.



RN 238747-51-8 HCAPLUS

CN 2(1H)-Pyrimidinone, 4-amino-5-fluoro-1-[(1R,4S)-4-(hydroxymethyl)-2-cyclopenten-1-yl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RETABLE

Referenced Author (RAU)	Year (RPY)	VOL (RVL)	PG (RPG)	Referenced Work (RWK)	Referenced File
Claude, P	1996			US 5512671 A	HCAPLUS
Haru, M				EP 0839813 A	HCAPLUS
Haru, M	1997			WO 9737993 A	HCAPLUS
Siddiqui, M	1998	39	1657	TETRAHEDRON LETTERS	HCAPLUS
Sterzycki, R	1990	33	2150	JOURNAL OF MEDICINAL	HCAPLUS
Univ Emory	1996			WO 9622778 A	HCAPLUS
Univ Emory	1996			WO 9640164 A	HCAPLUS

L37 ANSWER 46 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1999:312073 HCAPLUS

DN 130:346921

TI Ritonavir and saquinavir combination therapy for the treatment of HIV infection

AU Cameron, D. William; Japour, Anthony J.; Xu, Yi; Hsu, Ann; Mellors, John;

Farthing, Charles; Cohen, Calvin; Poretz, Donald; Markowitz, Martin;
 Follansbee, Steve; Angel, Jonathan B.; McMahon, Deborah; Ho, David;
 Devanarayan, Viswanath; Rode, Richard; Salgo, Miklos P.; Kempf, Dale J.;
 Granneman, Richard; Leonard, John M.; Sun, Eugene
 Ottawa General Hospital, Ottawa, ON, K1H 8L6, Can.

CS AIDS (London) (1999), 13(2), 213-224
 SO CODEN: AIDSET; ISSN: 0269-9370

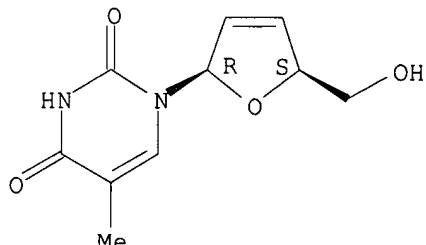
PB Lippincott Williams & Wilkins
 DT Journal
 LA English

AB The safety and antiretroviral activity of ritonavir (NorvirTM) and saquinavir (InviraseTM) combination therapy were evaluated in patients with HIV infection. A group of 141 adults with HIV infection, CD4 T lymphocyte counts of 100-500 + 106 cells/l, whether treated previously or not with reverse transcriptase inhibitor therapy, but without previous HIV protease inhibitor drug therapy. After discontinuation of prior therapy for 2 wk, group I patients were randomized to receive either combination (A) ritonavir 400 mg and saquinavir 400 mg twice daily or (B) ritonavir 600 mg and saquinavir 400 mg twice daily. After an initial safety assessment of group I patients, group II patients were randomized to receive either (C) ritonavir 400 mg and saquinavir 400 mg three times daily or (D) ritonavir 600 mg and saquinavir 600 mg twice daily. Investigators were allowed to add up to two reverse transcriptase inhibitors (including at least one with which the patient had not been previously treated) to a patient's regimen after week 12 for failure to achieve or maintain an HIV RNA level \leq 200 copies/mL documented on two consecutive occasions. Plasma HIV RNA levels and CD4+ T-lymphocyte counts were measured at baseline, every 2 wk for 2 mo, and monthly thereafter. Safety was assessed through the reporting of adverse events, phys. examns., and the monitoring of routine laboratory tests. The 48 wk of study treatment was completed by 75% (106/141) of the patients. Over 80% of the patients on treatment at week 48 had an HIV RNA level \leq 200 copies/mL. In addition, intent-to-treat and on-treatment analyses revealed comparable results. Suppression of plasma HIV RNA levels was similar for all treatment arms (mean areas under the curve minus baseline through 48 wk were -1.9, -2.0, -1.6, -1.8 log10 copies/mL in ritonavir-saquinavir 400-400 mg twice daily, 600-400 mg twice daily, 400-400 mg three times daily, and 600-600 mg twice daily, resp.). Median CD4 T-lymphocyte count rose by 128 + 106 cells/l from baseline, with an interquartile range (IQR) of 82-221 + 106 cells/l. The most common adverse events were diarrhea, circumoral paresthesia, asthenia, and nausea. Reversible elevation of serum transaminases ($>$ 5 + upper limit of normal) occurred in 10% (14/141) of the patients enrolled in this study and was associated with baseline abnormalities in liver function tests, baseline **hepatitis** B surface antigen positivity, or **hepatitis** C antibody positivity (relative risk, 5.0; 95% confidence interval 1.5-16.9). Most moderate or severe elevations in liver function tests occurred in patients treated with ritonavir-saquinavir 600-600 mg twice daily. Ritonavir 400 mg combined with saquinavir 400 mg twice daily with the selective addition of reverse transcriptase inhibitors was the best-tolerated regimen of four dose-ranging regimens and was equally as active as the higher dose combinations in HIV-pos. patients without previous protease inhibitor treatment.

IT 3056-17-5, Stavudine
 RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
 (antiviral activity of ritonavir and saquinavir combination therapy for

the treatment of human HIV infection with)
RN 3056-17-5 HCAPLUS
CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (R WK)	Referenced File
Buss, N	1998		145	5th Conference on Re	
Cameron, D	1998	351	543	Lancet	HCAPLUS
Carr, A	1997	349	996	Lancet	
Collier, A	1996	334	1011	N Engl J Med	HCAPLUS
Deeks, S	1997	277	145	JAMA	HCAPLUS
Gulick, R	1997	337	734	N Engl J Med	HCAPLUS
Hammer, S	1996	335	1081	N Engl J Med	HCAPLUS
Hammer, S	1997	337	725	N Engl J Med	HCAPLUS
Hsu, A	1998	63	453	Clin Pharmacol Ther	HCAPLUS
Jacobsen, H	1995	11	S169	AIDS Res Hum Retrovi	
Kempf, D	1998	12	F9	AIDS	HCAPLUS
Kempf, D	1997	41	654	Antimicrob Agents Ch	HCAPLUS
Kempf, D	1995	92	2484	Proc Natl Acad Sci U	HCAPLUS
Kohl, N	1988	85	4686	Proc Natl Acad Sci U	HCAPLUS
Lalezari, J	1996			XI International Con	
Marsh, K	1997	704	307	J Chromatogr	HCAPLUS
Merry, C	1997	11	F29	AIDS	HCAPLUS
Molla, A	1998	39	1	Antiviral Res	HCAPLUS
Molla, A	1996	2	760	Nat Med	HCAPLUS
Mulder, J	1994	32	292	J Clin Microbiol	HCAPLUS
National Institute Of A	1996			Division of AIDS: Di	
Peng, C	1989	63	2550	J Virol	HCAPLUS
Race, E	1998	351	252	Lancet	MEDLINE
Roberts, N	1990	248	358	Science	HCAPLUS
Roche Laboratories Inc	1998			Fortovase package in	
Roche Laboratories Inc	1998			Invirase package ins	
Rutschmann, O	1998	177	783	J Infect Dis	HCAPLUS
Seelmeier, S	1988	85	6612	Proc Natl Acad Sci U	HCAPLUS
Shapiro, J	1996	124	1039	Ann Int Med	

L37 ANSWER 47 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1998:484946 HCAPLUS

DN 129:121659

TI A method of modulating an immune response in an infected mammal by transmucosal administration of modulating agent

IN Michaels, Frank; Block, Timothy

PA Thomas Jefferson University, USA

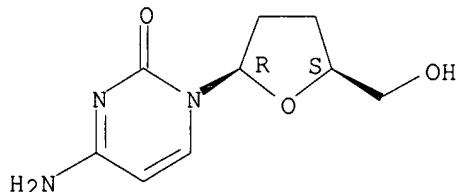
SO PCT Int. Appl., 55 pp.

CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9829121 W: CA, JP, US RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE CA 2276450 EP 979080 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI JP 2001507360 US 6355248	A1 AA A1 T2 B1	19980709 19980709 20000216 20010605 20020312	WO 1998-US4116 CA 1998-2276450 EP 1998-911458 JP 1998-530372 US 1999-334819	19980102 <-- 19980102 <-- 19980102 <-- 19980102 <-- 19990617 <--
PRAI	US 1997-34596P WO 1998-US4116	P W	19970102 19980102	<-- <--	
AB	Methods and compns. for modulating an immune response in mammals infected with a bacterium, a virus, or a parasite are provided. The methods and compns. are useful in mammals experiencing acute or chronic infections. The methods and compns. may be used in conjunction with known treatments for infection. The method entails the transmucosal administration of a composition comprising an epitope. The epitope of the mol. administered may be an epitope located on an antigen of the infectious agent or an epitope located on a tissue of the mammal. Typically, the tissue-derived epitope becomes reactive with the immune system and produces adverse or undesirable effects after the mammal is infected.				
IT	7481-89-2, Ddc RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (method of modulating an immune response in an infected mammal by transmucosal administration of epitopes and anti-infectious agents)				
RN	7481-89-2 HCPLUS				
CN	Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)				

Absolute stereochemistry. Rotation (+).



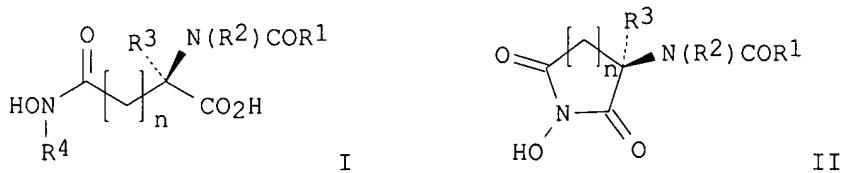
RETABLE

Referenced Author (RAU)	Year (R PY)	VOL (R VL)	PG (R PG)	Referenced Work (RWK)	Referenced File
Bolognesi	1995			US 5464933 A	HCAPLUS
Domb	1994			US 5340588 A	HCAPLUS
Hale	1997			US 5607691 A	HCAPLUS
Igari	1996			US 5482706 A	HCAPLUS
Marinaro, M	1995	155	4621	J Immunol	HCAPLUS
Yamagata	1997			US 5628993 A	HCAPLUS
Zhou, X	1991	75	117	Int J Pharm	HCAPLUS

L37 ANSWER 48 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 1998:41720 HCAPLUS

DN 128:110885
 TI Succinamic acid and succinimide derivatives having anti-inflammatory,
 anti-viral, and bronchodilating activity, preparation, compositions, and
 combinations with reverse transcriptase inhibitors
 IN Hamedhi-Sangsari, Farid; Nugier, Fabienne; Vallet, Thierry; Grange,
 Jacques; Vila, Jorge
 PA Compagnie De Developpement Aguettant S.A., Fr.
 SO U.S., 26 pp., Cont.-in-part of U.S. Ser. No. 528,879.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5705522 CA 2231996 WO 9710205 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI	A AA A1	19980106 19970320 19970320	US 1996-600525 CA 1996-2231996 WO 1996-IB942	19960213 <-- 19960913 <-- 19960913 <--
	AU 9668350 EP 854860 EP 854860	A1 A1 B1	19970401 19980729 20010725	AU 1996-68350 EP 1996-928647	19960913 <-- 19960913 <--
PRAI	US 1995-528879 US 1996-600525 WO 1996-IB942	A2 A W	19950915 19960213 19960913	<-- <-- <--	19960913 <-- 19960913 <--
OS	MARPAT 128:110885				
GI					



AB A new family of compds. are provided having anti-inflammatory, anti-viral, and bronchodilating activity. The compds are I and II [R1 = (halo-substituted) C1-4 alkyl; R2-R4 = H, (substituted) (branched) C1-8 alkyl, etc.]. Also provided are compns. of these compds., which alone, and in combination with reverse transcriptase inhibitors thereby resulting in an additive or synergistic effect, are useful in inhibiting or suppressing viruses including those exhibiting retroviral replication, or in treating viruses including a retrovirus such as HIV in a human cell population. Methods of using these compns., compds., and salts thereof are also provided. Preparation and anti-HIV activity of e.g. D-acetamido-N-hydroxysuccinamic acid are included.

IT 3056-17-5, d4T 3416-05-5 7481-89-2, DdC
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological

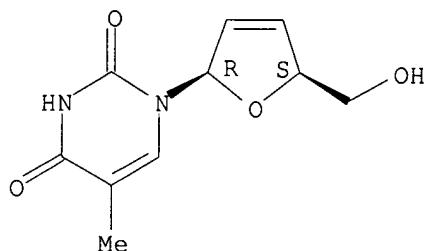
study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(succinamic acid and succinimide derivs. with antiinflammatory, antiviral, and bronchodilating activity, preparation, comps., and combinations with reverse transcriptase inhibitors)

RN 3056-17-5 HCPLUS

CN Thymidine, 2',3'-didehydro-3'-deoxy- (9CI) (CA INDEX NAME)

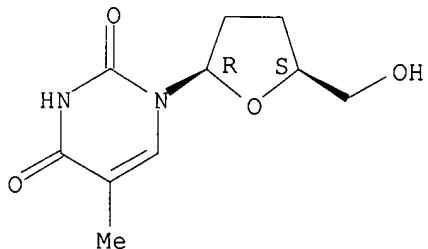
Absolute stereochemistry. Rotation (-).



RN 3416-05-5 HCPLUS

CN Thymidine, 3'-deoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

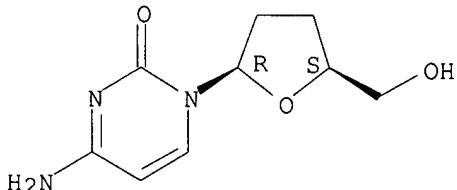
Absolute stereochemistry. Rotation (+).



RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RETABLE

Referenced Author (RAU)	Year VOL PG	Referenced Work (RWP)	Referenced File
	(R PY) (R VL) (R PG)	(R WK)	
Anon	1986	EP 0206497	HCPLUS
Anon	1987	WO 8701284	HCPLUS
Anon	1990	WO 9013291	HCPLUS
Anon	1993	WO 9321218	HCPLUS
Anon	1994	WO 9427590	HCPLUS

Anon		1995		WO 9517875	HCAPLUS
Anon		1996		International Search	
Anon		1983		Merck Index 10, 8741	
Anon		1996		PCT/ISA/220 Notifica	
Barre-Sinoussi, F	1983	220	868	Science	MEDLINE
Blodgett	1985	107	4305	J Am Chem Soc	HCAPLUS
Blodgett	1985	107	4305	J Am Chem Soc	HCAPLUS
Bodansky, M	1984		125	The Practice of Pept	
Bukrinsky, M	1991	254	423	Science	HCAPLUS
Cdc	1981	30	305	MMWR	
Chow	1993	361	650	Nature	HCAPLUS
Fauci, A	1988	239	617	Science	MEDLINE
Fauci, A	1993	262	1011	Science	HCAPLUS
Fox, C	1991	164	1051	J Infect Dis	MEDLINE
Hirsch, M	1993	328	1686	New Engl J Med	MEDLINE
Lori	1994	266	801	Science	HCAPLUS
McMillan, R	1992	13	323	TIPS	HCAPLUS
Miller	1977	42	1750	J Org Chem	HCAPLUS
Mitsuya	1989			US 4861759	HCAPLUS
Mitsuya	1993			US 5254539	HCAPLUS
Pauwels, R	1988	20	309	J Virol Methods	HCAPLUS
Schnittman, S	1989	245	305	Science	MEDLINE
Vila	1996			US 5571839	HCAPLUS
Vogel	1957	371	375	Text-Book of Practic	
Yarchoan	1989	321	726	New Engl J Med	HCAPLUS
Zack, J	1990	61	213	Cell	MEDLINE

L37 ANSWER 49 OF 50 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1995:810659 HCAPLUS

DN 123:208840

TI Hepatocyte-targeted drug conjugates

IN Plourde, Robert, Jr.; Carmichael, Ellen; Spitalny, George L.; Findeis, Mark A.; Ernst, Michael F.; Robinson, Brett

PA Targetech, Inc., USA

SO PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9518636	A2	19950713	WO 1995-US448	19950111 <--
	WO 9518636	A3	19950810		
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, UZ				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	CA 2180348	AA	19950713	CA 1995-2180348	19950111 <--
	AU 9516791	A1	19950801	AU 1995-16791	19950111 <--
	EP 737077	A1	19961016	EP 1995-908490	19950111 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09510696	T2	19971028	JP 1995-518699	19950111 <--
PRAI	US 1994-180207	A	19940111 <--		
	WO 1995-US448	W	19950111 <--		
AB	The invention provides conjugates for targeting a therapeutic agent to a cell with asialoglycoprotein receptors. The conjugates comprise a therapeutic agent and ligand for the asialoglycoprotein receptor, wherein				

the therapeutic agent and the ligand are linked by a bridging agent. The bridging agent can be a crosslinker, a polyfunctional carrier mol. or a crosslinker and a polyfunctional carrier mol. In a preferred embodiment, the therapeutic agent is a nucleoside analog or colchicine and the ligand is asialoorosomucoid, arabinogalactan or a tris-(N-acetyl galactosamine aminohexyl glycoside) amide of tyrosyl(glutamyl)-glutamate. Preferred crosslinkers include aminoacyl derivs., carboxyacyl derivs., phosphate, peptides and reductively-labile crosslinkers. Preferred polyfunctional carrier mols. include polyamino acids and polysaccharides. The conjugates of the invention can be used to target a therapeutic agent to a cell, for example to inhibit viral DNA replication in a virally-infected hepatocyte.

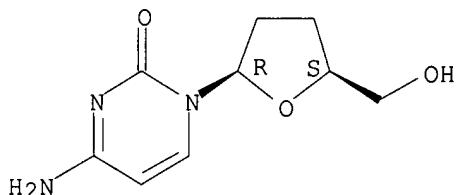
IT 7481-89-2DP, reaction products with polyaldehyde dextran, conjugates with asialoorosomucoids

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (**Therapeutic use**); BIOL (Biological study); PREP (Preparation); USES (Uses) (prodrugs for drug targeting to asialoglycoprotein receptors of hepatocytes)

RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



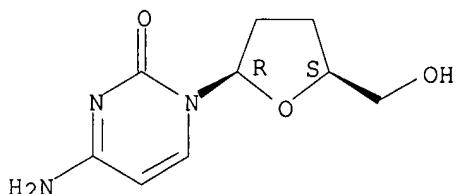
IT 7481-89-2, 2',3'-Dideoxycytidine

RL: RCT (Reactant); RACT (Reactant or reagent)
(prodrugs for drug targeting to asialoglycoprotein receptors of hepatocytes)

RN 7481-89-2 HCPLUS

CN Cytidine, 2',3'-dideoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L37 ANSWER 50 OF 50 HCPLUS COPYRIGHT 2006 ACS on STN

AN 1994:23538 HCPLUS

DN 120:23538

TI Compositions of N-(phosphonoacetyl)-L-aspartic acid and methods of their use as broad spectrum antivirals

IN Blough, Herbert A.

PA U.S. Bioscience, Inc., USA

SO PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9318763	A1	19930930	WO 1993-US2432	19930318 <--
	W: AU, BB, BG, BR, CA, CZ, FI, HU, JP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG				
	NS 5491135 AU 9339659	A	19960213	US 1993-32234	19930317 <--
	EP 660710	A1	19931021	AU 1993-39659	19930318 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE JP 07507770	A1	19950705	EP 1993-909132	19930318 <--
	BR 9306123	T2	19950831	JP 1993-516700	19930318 <--
PRAI	US 1992-853454	A	19920318	BR 1993-6123	19930318 <--
	US 1993-32234	A	19930317		
	WO 1993-US2432	A	19930318		

AB Antiviral compns. are described which contain the title compound and ≥1 other antiviral agent which act synergistically or additively.

IT 151779-22-5

RL: BIOL (Biological study)
(as virucide)

RN 151779-22-5 HCAPLUS

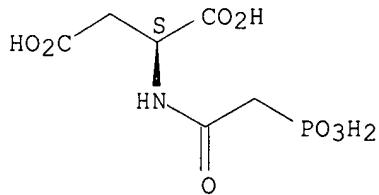
CN L-Aspartic acid, N-(phosphonoacetyl)-, mixt. with 2',3'-dideoxycytidine (9CI) (CA INDEX NAME)

CM 1

CRN 51321-79-0

CMF C6 H10 N O8 P

Absolute stereochemistry.



CM 2

CRN 7481-89-2

CMF C9 H13 N3 O3

Absolute stereochemistry. Rotation (+).

